COMPLIMENTS OF

WILLIAM PROCTER

BAR HARBOR, MAINE

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BIOLOGICAL SURVEY
OF THE
MOUNT DESERT REGION

Conducted by

WILLIAM PROCTER

PART I

THE INSECT FAUNA
with reference to the Flora and Other Biological Features

By CHARLES WILLISON JOHNSON

Curator of Insects and Mollusks,
Boston Society of Natural History

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MOUNT DESERT ISLAND BIOLOGICAL LABORATORY
Mount Desert Island, Maine

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PREFACE

The Mount Desert Region named in these publications is the territory of the island of Mount Desert, Maine, and its immediate surroundings in the extreme northeastern part of the United States. In this area of approximately 100 square miles is found a combination of sea and mountains with accompanying bays, rivers, brooks, lakes, swamps, valleys, and flats that is not found in any other place on the globe.

In the center is the island whose mountains rise from the sea to a level of over a thousand feet. Between mountain peaks numerous lakes are found; some at a considerable elevation, while others are lower. Approaching the sea level, swamps or 'heaths' are formed, where the water is fresh from the land drainage above or salt from the sea's penetration.

Outside is the open ocean, while between it and the island are smaller islands forming a sheltered thoroughfare and the harbors of Seal, North East, South West, and Manset, and from there the fjord called Somes Sound penetrates toward the center of the island for some miles.

On the east the open waters of Frenchman Bay are checked in their sweep by smaller islands which, with Mount Desert Island, enclose a large stretch of water between them and the mainland to the north and on which Bar Harbor is located. This bay is quite distinct biologically from the waters to the south.

Into the bay flow several rivers. Some are real rivers draining adjacent terrain, while others are tortuous channels from the sea extending many miles inland with a swift current moving one way or the other, due to the shifting tides which rise and fall normally about ten feet. On the mainland

toward the north are brooks and lakes varying in accordance with their method of formation.

Still farther to the west and beyond the Narrows is the Western Bay. Fed by several large brooks and the Union River, the life here is in many ways quite different from that in Frenchman Bay.

Believing that a region possessing such a variety of environmental conditions in a limited area while situated on the northern line of the transitional zone of the Austral and the southern line of the Boreal region should offer an exceptional opportunity for biological research, I have, after careful reconnaisance, undertaken this survey.

The results, which will be published as the work progresses, I hope will be of scientific value and interest. The desire back of this work, however, is to set forth the forms which occur in sufficient abundance as to be available for experimental biological research together with enough data to enable investigators to determine when and where the materials may be found.

For the purpose of furthering research in marine biology in this locality, the Mount Desert Island Biological Laboratory is situated on the Island at Salisbury Cove. The headquarters of the survey are at present at this station.

William Procter.

Bar Harbor, Maine, U.S.A.
January, 1927.

CHARLES HENRY FERNALD

It gives those engaged in the biological survey of Mount Desert great pleasure to dedicate this volume to the memory of

CHARLES HENRY FERNALD

A PATRIOT, ZOOLOGIST, AND TEACHER

Born at Southwest Harbor, Maine, March 16, 1839
Died at Amherst, Massachusetts, February 22, 1921

A true son of the Maine coast, Professor Fernald went to sea at the age of fifteen, spending six years on vessels engaged in West Indian and coast trade. He then entered the Wesleyan Seminary to prepare for college, but on the opening of the Civil War enlisted in the Navy where he served three years, retiring with the rank of Ensign. Continuing his studies at every opportunity, he was able at the close of his service to enter Bowdoin College. In 1871, Professor Fernald became the first professor of natural history at the Maine State College, now the University of Maine. While there he studied at the Museum of Comparative Zoology, Cambridge, Massachusetts, and under Louis Agassiz on Penikese Island. After fifteen years of service in the Maine State College, he resigned to accept the position of Professor of Zoology and Entomology in the Massachusetts Agricultural College, retiring in 1910.

THE INSECT FAUNA OF MOUNT DESERT, MAINE

INTRODUCTION

The study of the insect fauna of a given section, aside from its purely entomological importance, has great economic value in showing the relative distribution of the injurious species and their parasites. It also presents many biological features of general interest bearing on distribution, variation, the relation of insects to the flora, and other environmental conditions.

The value of such a study is often greatly enhanced by being made in a region so favorably situated as to show clearly many of the factors governing distribution. In this respect there are probably few places that equal Mount Desert. Situated on the southern edge of the area defined as the Canadian life zone or the most southern extension of the Boreal region and the most northern extension of the so-called Transitional zone of the Austral region, it forms a meeting-ground of the northern and southern species.

As I am endeavoring in this paper to show as far as it is possible the relation of insects to the flora, I will first consider what the botanists say regarding plant distribution.[1] "One of the most marked characteristics of the island flora is its not only strongly northern, but arctic character. On its coast, enveloped in cold fogs and washed by waters chilled by the arctic currents, it is no wonder that arctic plants like *Montia fontana* and *Stellaria humifusa* should find a congenial home. Moreover this character of the flora is shown by the fact that with one exception, *Lycopodium selago,* the mountain plants descend to the sea level. Neither on the one hand is the altitude of the mountain summits sufficient to develop an alpine

[1] "A preliminary catalogue of the plants growing on Mount Desert," by Edward L. Rand and John H. Redfield, p. 20. Cambridge, 1894.

flora nor on the other hand is the warmth and general character of the lowlands sufficient to bring many of the plants of the middle temperate region thus far up the coast of Maine. The flora then may be said to be essentially Canadian, having close relations with the very similar flora of New Brunswick. It also shows, apart from its maritime character, many points of resemblance to the general flora of the White Mountain region. It is in its special problems however, that plant distribution becomes of great interest at Mount Desert."

Prof. M. L. Fernald,[2] in referring to the diversity of the island flora, says: "The flora of the Mount Desert region is not by any means entirely arctic or subarctic. There we find essentially all of the common plants of the Canadian zone and mingling with them in sheltered nooks and meadows or on warm slopes, many scores of plants which reach their extreme northern or northeastern limit on Mount Desert or the immediate coast—such plants as the Pitch Pine, *Pinus rigida;* the Bear Oak, *Quercus ilicifolia;* the Sweet Pepperbush, *Clethra alnifolia;* the Swamp Loosestrife, *Decodon verticillatus;* the Meadow Beauty, *Rhexia virginica,* and the maple-leaved Viburnum, *Viburnum acerifolium.* This extraordinary accumulation within one small area of the typical plants of the arctic realm, of the Canadian zone and in many cases of the southern coastal plain, cannot be duplicated at any point known to the writer." Mount Desert is—

> "An island full of hills and dells,
> All rumpled and uneven
> With green recesses, sudden swells,
> And odorous valleys driven
> So deep and straight, that always there
> The wind is cradled to soft air."

This diversity and the temperature of the Island are aptly pointed out by Mr. Barrington Moore,[3] editor of Ecology, who says: "From the forestry point of view I can state that

[2] "An Acadian plant sanctuary." Sieur de Monts Publication, vol. 5, p. 6.

[3] "Scientific aspects of Mt. Desert Island." The Maine Naturalist, vol. 1, p. 100, 1921.

on no area of this size have I seen growing together forests representing such different conditions and consequently with such different requirements. The vegetation in general appears to be even more remarkable than the forests. Rand has found on the Island 230 species of plants common to the arctic. The crowberry (*Empetrum nigrum*) grows here at sea level, while inland at this latitude and even further north it is found only on the summits of the high mountains above timber line under truly arctic alpine conditions, and still the southern sweet fern (*Myrica asplenifolia*) grows here in actual contact with these boreal plants.

"An indication of the comparative mildness of the Mt. Desert climate in spite of its arctic flora, is to be found in a group of Japanese pines growing at one of the gateways north of the village of Bar Harbor, a tree so sensitive to cold that it is killed at the latitude of New York, which yet has lived on this island for twenty years without protection in winter."

In the remarks by Rand and Redfield on the plant distribution you will notice that an exception is made of the maritime flora, otherwise there is a "resemblance to the general flora of the White Mountain region." This is, to a large degree, equally true of the insects. The same trees and plants of the two places have the same insect enemies, and these insects in turn serve as hosts for the same parasites. The elevations of the island are not sufficient for the arctic-alpine forms of Mount Washington and the boreal species are more commonly found near the shores and in the vicinity of the lakes, cold spring runs, and bogs, the more sheltered and southern exposures probably harboring the greater number of austral species.

In regard to the distribution of aquatic insects, as pointed out by Dr. R. H. Howe, Jr.,[4] cold bogs and ponds that are spring fed have less extremes in temperature than ponds that are not thus supplied with water. Thus he found boreal and

[4] "The distribution of New England Odonata." Proc. Boston Soc. Nat. Hist., vol. 36, p. 110, 1921.

austral dragon flies living together in the same pond far beyond their normal limits of distribution. The pond in question had a bottom temperature of 51°F. in summer and 36°F. in winter—a range of only 15°.

The distribution of most of the maritime insects is governed comparatively little by the corresponding vegetation, although the two frequently show a similar distribution. Temperature and a suitable environment are the principal factors. A low muddy shore with considerable marsh and pools of brackish water has an insect fauna of its own, and it is these species that often show a very wide distribution. To the proximity of the ocean with its modifying effect on the climate is apparently due this extension of southern species far beyond their normal habitat. On the other hand, cold currents produce conditions favorable to boreal species. The effect of the ocean on temperature is perhaps best shown at Sable Island.[5] "A study of the temperature will show that there are no extremes of heat or cold on the island; that the highest temperature during the past four years was 78° and the lowest point reached by the thermometer during the same period was 5° above zero."

With these evident and interesting features bearing on the zoögeography of the island before us, a special study has been made each year of the halophilous insects frequenting the salt marshes at the Narrows near the bridge. The number of southern species that have been collected there is surprising. Their abundance would also indicate that this is by no means the northeastern limit of distribution of many of the species and that a wide overlapping of northern and southern forms occurs on this part of the coast.

The abundance of the parasite wasps—Ichneumonidae—and the parasitic flies—Tachinidae—indicates a normal or balanced condition, these insects keeping in check the injurious species. The lady-beetles, lace wings, and syrphid flies, the great enemies of the plant-lice, are also abundant and

[5] "Sable Island with a catalogue of its vascular plants," by Harold St. John, Proc. Boston Soc. Nat. Hist., vol. 36, p. 52, 1921.

largely instrumental in keeping these prolific and destructive insects within bounds.

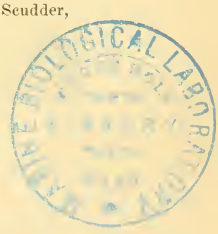
Another factor of importance relative to a careful survey of the insect fauna of a region is the having on record the species to be found there at a certain time, so that, in the future, changes which we know are slowly but certainly affecting insect life can be tabulated and the causes which have brought about an increase or diminution of certain species may be better understood. The many introduced trees and plants have been and may continue to be a factor toward further insect distribution. Already there have occurred among plants of economic importance such insects as the Colorado potato beetle, the lunate onion fly and the narcissus fly on bulbs, the European cabbage butterfly, etc. The brown-tail moth, abundant from 1909–1915, when Bar Harbor spent over $2500.00 in keeping it in check, has now apparently disappeared, at least I have seen but one moth (July 16, 1923) since starting my work in 1918. The gypsy moth is reported on the island, although not yet abundant. The danger from introduced species cannot be overestimated, and prompt action should be taken to destroy them, otherwise—

> "A big invading army
> They make the earth their own."

Introduced without their parasites and other natural enemies, the only immediate recourse is in spraying with arsenical preparations, with the result that many of our native species disappear, the balance of nature is disturbed and the diversity and beauty of our insect fauna are gone. The rich insect fauna of Mount Desert shows that we are still dealing in places with an almost undisturbed ecological condition, which we trust may continue to survive in the many sequestered parts of the island.

Prior to the work of preparing this list there had been practically no special entomological work done on the island. A number of butterflies obtained by various collectors visiting Mount Desert are mentioned in Scudder's great work.[6]

[6] "Butterflies of eastern United States and Canada," by Samuel H. Scudder, 3 volumes, 1959 pages, and 89 plates, 1889.



A paper on the tiger beetles[7] seems to be the only paper published pertaining especially to insects found on the island.

The late Prof. H. C. Fernald and his son Dr. H. T. Fernald have collected many insects on the island. These are now in the collection of the Massachusetts Agricultural College, Amherst, Massachusetts, and have been studied in connection with this list. The summers of 1909 to 1911 were spent by the late Dr. Charles Sedgwick Minot at Northeast Harbor. In his younger days Dr. Minot was greatly interested in the study of Lepidoptera, and here he renewed his first love for nature by making a large and exceedingly valuable collection of insects, mostly of moths which he captured at lights. Several of the insects were new to science and others very rare, some of the moths not having been collected since Packard recorded them in his monograph of the Geometridae in 1876. In all, over 280 species of Lepidoptera with many other insects were collected by him. These are in the collection of the Boston Society of Natural History.

In connection with its work on the New England fauna, the Boston Society of Natural History in 1918 selected the island of Mount Desert as a place for a part of its summer work, this location presenting favorable conditions for a study of insects in relation to life zones. July 10th to 18th was spent by me at Southwest Harbor, the field work being confined to the woods south of Manset, "Great Heath," the southern portions of Echo Lake and Long Pond (Great Pond) and the southern slope of Western Mountain.

In 1919, my work from July 17th to 31st was confined to the vicinity of Bar Harbor, collecting at the Nurseries, at the foot of Picket Mountain, Sieur de Monts Spring, Duck Brook, Witch Hole Pond, Green Mountain, and for one day (July 27th), on the salt marsh at the Narrows near the bridge.

From August 10 to 19, 1920, the above localities near Bar Harbor were again visited, with one day (August 13th) spent at the Narrows in company with Mr. Barrington Moore.

[7] "Cicindelidae of Mt. Desert, Maine," by Edw. Doubleday Harris, Journal N. Y. Entom. Soc., vol. 9, p. 29, 1901.

August 20th to 24th was spent at Southwest Harbor, collecting at Long Pond and the woods south of Manset. August 23rd was spent with Mr. and Mrs. Moore in making a special study of a small bog near Tremont.

In 1921, the work of collecting was begun much earlier, with excellent results. June 7th to 16th was spent at Bar Harbor, collecting at the places mentioned above, with the exception of Green Mountain. June 9th was spent at the Narrows and Salisbury Cove, and June 10th at Jordan and Upper Hadlock Ponds in company with Mr. Benjamin Hadley. From June 17th to 23rd the work of collecting was continued at Southwest Harbor, in the woods south of Manset, Echo Lake, and Long Pond. Mr. S. N. F. Sanford also collected at Salisbury Cove and other parts of the island in July and again in August, adding a number of species to the list.

In 1922, work was again started in June. From the 16th to 23rd the localities mentioned in the vicinity of Bar Harbor were again visited, but rainy and foggy weather interfered considerably. June 24th to 29th was spent at Southwest Harbor, collecting again at the places mentioned above. Through the kindness of Mr. Barrington Moore, June 26th was spent in collecting at the Narrows, at the outlet of Long Pond, and on Mount Robinson, examining the bear or scrub oaks—*Quercus ilicifolia*—on which were found the characteristic galls of this oak, *Callirhytis tuberosa* and *C. operator*.

A collecting trip was also made this year in September for autumnal species. September 6th was spent in the woods below Manset, Southwest Harbor; September 7th, at Echo Lake and Long Pond; September 8th, at Seal Brook and Break Neck Pond through the kindness of Mr. Hallock; September 9th and 10th, at Bar Harbor; September 11th at Duck Pond; September 12th, at the Narrows through the kindness of Mr. Benjamin Hadley, and September 13th, at Newport Cove (Sand Beach), Great Head, in company with Mr. Barrington Moore.

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In 1923, collecting was done in July. The 10th was spent at Bar Harbor; the 11th at Newport Cove, Great Head, in company with Mr. H. B. Peirson. July 12th to 18th was spent at the Mount Desert Biological Laboratory, Salisbury Cove; the 15th, in company with Mr. C. E. Olsen, and the 17th, at the Narrows through the kindness of Mr. Frank J. Myers. July 19th and 20th was spent at Manset, Southwest Harbor.

The island was not visited in 1924, but in July, 1925, I again continued my work. The 22nd to 25th was spent at Salisbury Cove, collecting on the "Heath" and "Meadow" south of the town and as far west as the mouth of Northeast Creek. The 26th to 29th was spent at Manset.

From August 6 to 12, 1926, work was again confined to the vicinity of Salisbury Cove. From August 26 to September 12, 1926, Dr. and Mrs. C. P. Alexander, of Amherst, Massachusetts, visited the island, stopping at Southwest Harbor. Their collecting was confined largely to the southern end of Echo Lake, Beach, and Western Mountains. They were very successful and added many species to the list, especially in the Tipulidae.

Through the kindness of Mr. Dwight Blaney, I have examined a collection of insects he has made on Ironbound Island. A few of these, not yet found on Mount Desert (but which undoubtedly will be) have been added to the list.

In making a collection from any given area, about one-half of these species are found quite common, some are always rare, while with others their time of appearing is limited or they are local and can only be obtained by collecting at all seasons and in all parts of the area for a number of years. Another feature in the study of insects that should be considered is that practically all determinations have to be made from the adult or winged stage, and that each of these pass through at least three other well-marked stages—egg, larva, and pupa—while the larvae and nymphs of many, in each of their several molts, often vary greatly in appearance. Thus, while there are probably 5000 species on the island of Mount Desert, these would be represented by over 30,000 quite distinct

forms. The habits of a species are given when known, but with the larger number of species the life-history is not known.

The following list of species shows one feature that might seem to some misleading and that is the large number of Diptera in comparison with some of the other orders. The reason for this is that the writer, being a dipterist, has been able to determine the greater part of the species collected. The Hymenoptera would probably prove as numerous if all of the species could be determined. The number of species here recorded seems quite large for an island of this size (about 100 square miles) and shows how favorable the varied conditions are for insect life. The number of species actually existing on the island is somewhat problematical, but a conservative estimate would be about 5000. In the material collected are still several hundred unnamed species, largely among the smaller hymenopterous parasites, many of which have not yet been studied or even named. Each day in the field for years to come would add something new to the list.

"So away! for the hunt in the fern-scented woods
Till the going down of the sun;
There is plenty of game still left in the woods
For the hunter who has no gun."

SAM WALTER FOSS.

SUMMARY

The number of species and varieties recorded in each order:

Orthoptera: Crickets, grasshoppers, locusts, etc.	28	*Homoptera:* Cicadas, leaf hoppers, aphids, etc.	121
Plecoptera: Stone flies	12	*Mecoptera:* Scorpion flies	3
Ephemerida: Dayflies or May flies	5	*Trichoptera:* Caddice flies	31
Odonata: Dragon flies	46	*Lepidoptera:* Butterflies and moths	521
Megaloptera: Dobsons, etc.	3	*Strepsiptera:* Twisted winged insects	2
Neuroptera: Aphis lions (lacewings), ant lions	17	*Coleoptera:* Beetles and weevils	469
Corrodentia: Psocids, book lice	19	*Hymenoptera:* Sawflies, wasps, bees, etc.	692
Mallophaga: Bird lice	93	*Siphonaptera:* Fleas	1
Thysanoptera: Thrips	1	*Diptera:* Flies, mosquitoes, etc.	1197
Hemiptera: True bugs	123		

3384

The above numbers are based on species and varieties actually taken on the island, with the exception of the Mallophaga and two species of bird flies (Hippoboscidae). To acquire actual records of these would necessitate the shooting of a large number of birds, the loss of which would not compensate for the little knowledge gained. As over 80 per cent of the birds are infested by these parasites, a list of the species frequenting the more common birds of the island can be depended upon to represent the approximate number of species.

Many groups like the Aphidae, Coccidae, and the host of little parasitic Hymenoptera, especially the Chalcidoidea, requiring special collecting and the work of specialists, have not been studied. The Diptera, which have been more thoroughly studied than the other large orders, show to what extent even Lower Austral species thrive in practically boreal conditions. This applies, as I have already stated, more particularly to the maritime or halophilous species. The following species are all found in the salt marshes from Florida to Mount Desert, and the range of some extends to Nova Scotia: *Aedes sollicitans, Tabanus nigrovittatus, Chrysops fuliginosa, Odontomyia cincta, Chaetopsis aenea, C. apicalis, Tetramerix unica, Phyllogaster cordyluroides, Notiphila bispinosa, Napaea imitans,* and *Dimecaena spinosa. Hoplodictya setosa* is found from Georgia to Mount Desert, while many species common to the Upper Austral are also abundant here. *Bittacomorphella jonesii,* described from Lake Toxoway, North Carolina, at an elevation of 3000 feet, is here found at practically sea level—a distribution quite common to many boreal species. In the Hymenoptera the large number of Psammocharidae and Sphecidae give the fauna quite an austral aspect. Vigorous flying moths like *Aellopos titans,* etc., that are often carried by strong currents of air far beyond their natural habitat, cannot be considered in defining life zones. On the other hand, widely dispersed species circumpolar in distribution are useful in defining the southern limits of the boreal. To those especially interested in distribution the list will show many noteworthy examples.

ACKNOWLEDGMENTS

In preparing this list I am under great obligations to a number of specialists for their generous assistance in determining material. Through the kindness of Dr. L. O. Howard, Messrs. S. A. Rohwer, R. A. Cushman, A. B. Gahan, and C. F. W. Muesebeck named many of the sawflies and parasitic Hymenoptera. The ants were determined by Dr. W. M. Wheeler; the Chrysididae, by Dr. L. H. Taylor; the Eumenidae, by Dr. J. Bequaert; the Sphecidae, by Dr. H. T. Fernald; some of the bees, by Mr. H. L. Viereck; the Megachile, by Mr. T. B. Mitchell, and the Psammocharidae and many of the Neuropteroids, by Mr. Nathan Banks.

In the Diptera I have had the assistance of Dr. C. P. Alexander on the Tipulidae; Dr. J. M. Aldrich, on the Tachinidae and Sarocophagidae; Mr. M. C. Van Duzee, on the Dolichopodidae; Prof. C. T. Brues, on the Phoridae; Mr. J. R. Malloch, on the Anthomyiinae, and Mr. E. T. Cresson, Jr., on the Ephydridae. Messrs. H. C. Fall and C. A. Frost have determined a number of Coleoptera; Mr. A. P. Morse, a number of Orthoptera; Prof. Herbert Osborn, a number of Homoptera; Dr. H. M. Parshley and Dr. H. B. Hungerford, a number of Hemiptera, and Dr. R. H. Howe, Jr., a number of Odonata. Mr. P. J. Chapman has revised the list of Psocidae, and Mr. H. S. Peters, the Mallophaga.

To the Journal of Economic Entomology I am indebted for the picture of Prof. H. C. Fernald.

Charles W. Johnson.

Order ORTHOPTERA

Blattidae. Cockroaches

Nyctibora Burmeister

N. laevigata Burm.? Market, S. W. Harbor (Mrs. Palmer). A West Indian species, probably introduced on bananas.

Tettigoniidae. Long-horned grasshoppers

Scudderia Stål

S. furcata Brun. Forked-tailed katydid. N. E. Harbor (Minot); Bee Hive Mt. (Sanford); Witch Hole Pond, Aug. 13–Sept. 11.

S. pistillata Brun. Meadow near Salisbury Cove, Aug. 17.

Conocephalus Thunberg

C. fasciatus De G. Slender meadow grasshopper. S. W. Harbor, Sept. 6.

C. brevipennis Scud. Short-winged meadow grasshopper. Narrows, Aug. 12.

Ceuthophilus Scudder

C. maculatus Harr. Spotted cave-cricket. Bar Harbor; Salisbury Cove; Sargent Mt., Aug. 2–Sept. 11.

Orchelimum Serville

O. gladiator Brun. Meadow grasshopper. Meadow south of Salisbury Cove, Aug. 9–11.

Gryllidae. Crickets

Gryllus Linnaeus

G. assimilis Fab. Common field cricket. Bar Harbor; Long Pond; Narrows, June 20–Aug. 13.

Nemobius Serville

N. fasciatus De G. Striped grass-cricket. Bar Harbor; Narrows, Aug. 13–14.

N. PALUSTRIS Blatch. Sphagnum cricket. Common in Sphagnum bogs. Witch Hole Pond; Tremont, Aug. 18–23.

N. CAROLINUS Scud. Carolina ground cricket. Bar Harbor, Aug. 14.

ACRIDIDAE. True locusts, or short-horned grasshoppers

ORPHULELLA Giglio-Tos

O. SPECIOSA Scud. Pasture locust. Salisbury Cove, Aug. 11.

CHLOEALTIS Harris

C. CONSPERSA Harr. Sprinkled locust. Long Pond, Aug. 21.

CHORTHIPPUS Fieber

C. CURTIPENNIS Harr. Meadow locust. Common, July 16–Aug. 23.

MECOSTETHUS Fieber

M. LINEATUS Scud. Striped sedge locust. Meadow near Salisbury Cove; Breakneck Pond, Aug. 9–Sept. 8.

M. GRACILIS Scud. Northern sedge locust. 'Great Heath,' S. W. Harbor; Meadow Brook, Aug. 23–Sept. 13.

CHORTOPHAGA Saussure

C. VIRIDIFASCIATA De G. Green-striped locust. Salisbury Cove, June 9.

CAMNULA Stål

C. PELLUCIDA Scud. Clear-winged locust. S. W. Harbor, Aug. 20.

DISSOSTEIRA Scudder

D. CAROLINA Linn. Carolina locust. Common, July 27–Aug. 14.

CIRCOTETTIX Scudder

C. VERRUCULATUS Kby. Snapping locust. Abundant on the top of Green Mt., July 25; also taken at Bar Harbor; Salisbury Cove; S. W. Harbor, Aug. 13–20.

MELANOPLUS Stål

M. MEXICANUS ATLANIS Riley. Lesser migratory locust. Common, Aug. 13–21.

M. BIVITTATUS Say. Two-striped locust. Bar Harbor; Narrows; S. W. Harbor, Aug. 13–20.

M. BOREALIS Fieb. Northern locust. Salisbury Cove; Bar Harbor, June 9–July 29.

M. FASCIATUS Walk. Bar Harbor, 'Great Clearing'; S. W. Harbor, June 10–Aug. 20.

M. MANCUS Smith. Common on the top of Green Mt., Aug. 17; Bar Harbor, Aug. 18.

NOMOTETTIX Morse

N. CRISTATUS Scud. Crested pygmy locust. Bar Harbor; Salisbury Cove; S. W. Harbor, June 13–Aug. 18.

ACRYDIUM Geoffroy

A. GRANULATUM Kby. Granulate pygmy locust. Bar Harbor, June 8–13.

A. GRANULATUM var. INCURVATUM Hancock. Beach Mt., 800 ft., Sept. 12 (Alexander).

Order PLECOPTERA

PERLIDAE. Stone flies

PERLA Geoffroy

P. IMMARGINATA Say. Duck Brook, Aug. 18.

P. MEDIA Walk. Long Pond, June 25–27.

P. sp. Long Pond, June 15.

ALLOPERLA Banks

A. IMBECILLA Say. 'Mt. Desert,' June 10.

A. LATERALIS Banks. Bar Harbor, July 20.

CHLOROPERLA Newman

C. CYDIPPE Newm. Echo Lake, July 12.

ISOPERLA Banks

I. MONTANA Banks. Bar Harbor, June 8.

PERLINELLA Banks

P. DRYMO Newm. Jordan Pond, June 16.

ACRONEURIA Pictet

A. LYCORIAS Newm. Long Pond, July 20.

NEMOURA Latreille

N. SERRATA Claas. Bar Harbor, June 8.

N. VENOSA Banks? Long Pond, June 27.

LEUCTRA Stephens

L. sp. S. W. Harbor, June 20; Bar Harbor, June 23.

Order EPHEMERIDA

Ephemeridae

Ephemera Linnaeus

E. simulans Walk. Echo Lake, July 17–Sept. 7.

Blasturus Eaton

B. cupida Say. Long Pond, June 27.

Habrophlebia Eaton

H. vibrans Needh. Duck Brook; Bar Harbor, June 18.

Habrophlebiades Ulmer

H. americana Banks. Duck Brook; Bar Harbor, June 13–Aug. 18.

Callibaetis Eaton

C. ferrugineus Walsh. Bar Harbor, July 29.

Order ODONATA

Agrionidae. Damsel flies

Agrion Fabricius

A. maculatum Beauv. Long Pond; Bar Harbor, June 26–July 21.

Lestes Leach

L. disjunctus Selys. Bar Harbor, July 29.
L. forcipatus Ramb. Bar Harbor, July 24.
L. uncatus Kby. Bar Harbor; S. W. Harbor, July 13–29.
L. vigilax Hag. Witch Hole Pond, June 13.

Argia Rambur

A. moesta Hag. Long Pond, June 20.
A. violacea Hag. Eagle Lake, July 18.

Enallagma Charpentier

E. civile Hag. Bar Harbor, June 8; N. E. Harbor (Merrill).
E. ebrium Hag. N. E. Harbor (Merrill).
E. exulans Hag. N. E. Harbor (Merrill).
E. hageni Walsh. Common, June 8–Aug. 16.
E. minusculum Morse. Echo Lake, July 12.
E. cyathigerum Charp. Bar Harbor, July 11.

NEHALENNIA Selys

N. IRENE Hag. Bar Harbor; Witch Hole Pond; S. W. Harbor, June 11–Aug. 10.

CHROMAGRION Needham

C. CONDITUM Hag. Bar Harbor, June 11.

ISCHNURA Charpentier

I. VERTICALIS Say. Common, June 11–Aug. 16.

AESHNIDAE. Dragon flies

CORDULEGASTER Leach

C. DIASTATOPS Selys. S. W. Harbor, June 20.

C. MACULATUS Selys. Bar Harbor, June 16 and 19.

GOMPHUS Leach

G. EXILIS Selys. Witch Hole Pond; Bar Harbor, June 11–July 30.

G. SPICATUS Hag. Bar Harbor, June 8.

BOYERIA Leach

B. VINOSA Say. Seal Cove Brook, Sept. 8.

ANAX Leach

A. JUNIUS Drury. Ironbound Isl. (Blaney).

AESHNA Fabricius

A. UMBROSA Walk. Bar Harbor, Aug. 10; N. E. Harbor, Sept. 6 (Merrill).

A. INTERRUPTA Walk. Ironbound Isl. (Blaney).

A. CLEPSYDRA Say. Bar Harbor, Aug. 16.

A. CANADENSIS Walk. Bar Harbor, Aug. 16.

DIDYMOPS Rambur

D. TRANSVERSA Say. Common, June 11–July 17.

DOROCORDULIA Needham

D. LEPIDA Hag. Bar Harbor, June 8–July 21.

D. LIBERA Selys. Bar Harbor, June 8–July 29.

HELOCORDULIA Needham

H. UHLERI Selys. Echo Lake, July 12.

CORDULIA Leach

C. SHURTLEFFI Scud. Bar Harbor, June 8–July 29.

TETRAGONEURIA Hagen

T. CYNOSURA SIMULANS Muttk. Echo Lake, July 12.

LIBELLULA Linnaeus

L. EXUSTA Say. Witch Hole Pond; Long Pond, June 13–26.
L. QUADRIMACULATA Linn. Common, June 8–July 11.
L. SEMIFASCIATA Burm. Bar Harbor, June 15.

PLATHEMIS Hagen

P. LYDIA Drury. Bar Harbor, June 11–July 20.

NANNOTHEMIS Brauer

N. BELLA Uhler. Witch Hole Pond, June 13.

SYMPETRUM Newman

S. RUBICUNDULUM Say. Common; Echo Lake; Bar Harbor; Tremont, Aug. 9–23.
S. OBTRUSUM Hag. Narrows; Witch Hole Pond, Aug. 13–18.
S. COSTIFERUM Hag. Bar Harbor, Aug. 18.
S. VICINUM Hag. Bar Harbor, Aug. 10.

LEUCORRHINIA Brittinger

L. INTACTA Hag. Common, June 8–July 21.
L. GLACIALIS Hag. Echo Lake; Beaver Dam Pond, July 12–24.
L. FRIGIDA Hag. Echo Lake; Witch Hole Pond, June 13–July 30.
L. PROXIMA Calv. Witch Hole Pond; Bar Harbor, June 11–July 24.

CELITHEMIS Hagen

C. ELISA Hag. Witch Hole Pond, Aug. 18.

Order MEGALOPTERA

SIALIDAE

SIALIS Latreille

S. INFUMATA Newm. Duck Brook; Echo Lake; Long Pond, June 13–20.

CHAULIODES Latreille

C. FASCIATUS Walk. Sieur de Monts Spring, Bar Harbor, June 21.
C. SERRICORNIS Say. Bar Harbor; Jordan Pond; Echo Lake, June 8–17.

Order NEUROPTERA

Hemerobiidae

Sisyra Burmeister

S. vicaria var. umbrata Needh. S. W. Harbor, Sept. 3 (Alexander).

Hemerobius Linnaeus

H. humuli Linn. N. E. Harbor, July 17 (Minot).

H. marginatus Steph. Echo Lake; Long Pond; Bar Harbor, June 27–Aug. 10.

H. simplex Banks. N. E. Harbor, Sept. 23 (Minot).

H. venustus Banks. N. E. Harbor, July 1–Aug. 29 (Minot).

Boriomyia Banks

B. disjuncta Banks. S. W. Harbor; N. E. Harbor, Aug. 24–Sept. 27.

B. longifrons Walk. Common, June 10–Aug. 29.

Symphorobius Banks

S. amiculus Fitch. N. E. Harbor, July 1–Aug. 10 (Minot).

Micromus Rambur

M. angulatus Steph. S. W. Harbor, June 24.

M. montanus Hag. N. E. Harbor, Sept. 4 (Minot).

M. posticus Walk. S. W. Harbor, Aug. 29 (Alexander).

Chrysopidae. Lace wings

Chrysopa Leach

C. nigricornis Burm. Bar Harbor; Salisbury Cove, July 10–Aug. 11.

C. oculata Say. S. W. Harbor; Salisbury Cove, June 27–Aug. 22.

C. ypsilon Fitch. Salisbury Cove, July 18.

Meleoma Fitch

M. signoretti Fitch. Duck Brook; Long Pond; N. E. Harbor (Minot), June 13–Aug. 11.

Eremochrysa Banks

E. hageni Banks. N. E. Harbor, July 13 (Minot).

Coniopterygidae

Coniopteryx Curtis

C. vicina Hag. Echo Lake, July 12.

Order CORRODENTIA

Psocidae

Psocus Latreille

P. confraternus Banks. S. W. Harbor; Duck Brook, Aug. 20–Sept. 11.

P. hageni Banks. Green Mt.; N. E. Harbor (Minot), Aug. 17–18.

P. leidyi Aaron. Beach Mt., Sept. 12 (Alexander).

P. moestus Hag. S. W. Harbor, Aug. 26–Sept. 12 (Alexander).

P. novaescotiae Walk. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

P. quietus Walsh. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

P. perplexus Walsh. Common, July 30–Aug. 30.

P. pollutus Walsh. S. W. Harbor; Beach Mt., Aug. 26–Sept. 12 (Alexander).

P. slossonae Banks. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

Graphopsocus Kolbe

G. cruciatus Linn. Bar Harbor, June 17–25.

Caeciliidae

Caecilius Curtis

C. aurantiacus Hag. Echo Lake; Witch Hole Pond; S. W. Harbor, July 21–Sept. 12.

C. sp. Beach Mt., Sept. (Alexander).

Polypsocus Hagen

P. corruptus Hag. Bar Harbor; S. W. Harbor, July 12–Sept. 12.

Peripsocus Hagen

P. madescens Walsh. S. W. Harbor (Alexander); Long Pond, Aug. 26–Sept. 9.

P. madidus Hag. Witch Hole Pond; S. W. Harbor; Beach Mt., July 30–Sept. 12.

MYOPSOCIDAE

LICHENOMINA Enderlein (*Myopsocus* Hagen)

L. LUGENS Hag. Salisbury Cove, July 15.

L. SPARSUS Hag. Duck Brook, Aug. 18.

MESOPSOCIDAE

ELIPSOCUS Hagen

E. CANADENSIS Prov. Long Pond; Seal Cove; Bar Harbor, Sept. 7–10.

PHILOTARSUS Kolbe

P. n. sp. (Chapman). S. W. Harbor; Beach Mt., Aug 31–Sept. 12 (Alexander).

Order MALLOPHAGA

MENOPONIDAE

MENOPON Nitzsch

M. GALLINAE Linn. Common chicken louse.

M. STRAMINEUM Nitz. Infests domestic fowls.

M. CROCATUM Nitz. Occurs on American woodcock.

M. EXPANSUM Osb. Occurs on bobolink.

COLPOCEPHALUM Nitzsch

C. FUSCIPES Piaget. Infests various gulls.

C. PICEUM Denny. Found on great black-backed gull.

C. OCHRACEUM Nitz. Occurs on pectoral sandpiper.

C. PUSTULOSUM Piaget. Infests belted kingfisher.

C. SUBPACHYGASTER Piaget. Occurs on great horned owl.

ACTORNITHOPHILUS Ferris

A. AFFINE Nitz. Found on spotted sandpiper.

A. FUNEBRE Kell. Infests various gulls.

A. MINUS Kell. & Chap. Occurs on sanderling.

A. TIMIDUS Kell. On golden and black-bellied plovers.

MYRSIDEA Waterston

M. AMERICANA Kell. Occurs on common crow.

M. CUCULARIS Nitz. Occurs on starling.

M. CRASSIPES Piaget. Found on Baltimore oriole.

M. DISSIMILIS Kell. Infests purple martin.

M. INTERRUPTA Osb. Found on common crow.

M. INCERTA Kell. Occurs on various passerines.

M. RUSTICA Nitz. Infests purple martin.

MARINE BIOLOGICAL LABORATORY WOODS HOLE LIBRARY MASS.

TETROPHTHALMUS Grosse

T. INCOMPOSITUS Kell. & Chap. Occurs on double-crested cormorant.

DENNYUS Neumann

D. DUBIUS Kell. Occurs on chimney swift.
D. TRUNCATUS Olfers. Also found on chimney swift.

TRINTON Nitzsch

T. LITURATUM Nitz. Infests duck and geese.
T. QUERQUEDULAE Linn. Occurs on the various wild ducks.

PSEUDOMENOPON Mjöberg

P. PACIFICUM Kell. Found on grebes.

LAEMOBOTHRIIDAE

LAEMOBOTHRION Nitzsch

L. NIGRUM Burm. Occurs on coots.

RICINIDAE

RICINIS De Geer

R. ANGULATUS Kell. Found on kingbird.
R. FRENATUS Nitz. Occurs on golden-crowned kinglet.
R. LINEATUS Osb. Found on ruby-throated hummingbird.

PHILOPTERIDAE

GONIODES Nitzsch

G. DAMICORNIS Nitz. Infests domestic pigeon.

LIPEURUS Nitzsch

L. CAPONIS Linn. Infests domestic fowls.
L. HETEROGRAPHUS Nitz. Also on domestic fowls.

PHILOPTERUS Nitzsch

P. AGELAII Osb. Found on red-winged blackbird.
P. AURITUS Scop. Occurs on hairy woodpecker.
P. BUTEONIS Pack. Infests red-shouldered hawk.
P. COLYMBINUS Drury. Found on loon.
P. CORVI Osb. Occurs on crow.
P. CURSOR Nitz. Frequents various species of owls.
P. FUSCOVENTRALIS Osb. Occurs on wood pewee.
P. FUSIFORMIS Drury. Infests knot and sandpipers.

P. GONOTHORAX Giebel. Occurs on various gulls.
P. HALIETI Osb. Found on bald eagle.
P. LATIROSTRIS Burm. Occurs on black-billed cuckoo.
P. MELANOCEPHALUS Nitz. Infests terns.
P. PLATYSTOMUS Nitz. Found on hawks and eagles.
P. QUISCALI Osb. Occurs on grackles and crows.
P. SUBFLAVESCENS Geof. Occurs on northern strike, crossbills, etc.
P. SIALIS Osb. Infests bluebird.
P. TRANSPOSITUS Kell. Found on cowbird.

ANATOECUS Cummings

A. DENTATUS Scop. Common on ducks and geese.

EUSTRIGIPHILUS Ewing

E. BUBONIS Osb. Infests great horned owl.
E. CEBLEBRACHYS Nitz. Infests snowy owl.

CUCULOECUS Ewing

C. COCCYGI Osb. Occurs on yellow-billed cuckoo.

DEGEERIELLA Neumann

D. ACTOPHILA Kell. & Chap. Found on sanderling.
D. ALCAE Denny. Occurs on dovekie.
D. AMERICANA Kell. & Chap. Found on grebes.
D. BRACHYTHORAX Nitz. Occurs on cedar waxwing.
D. COMPLEXIVA Kell. & Chap. Found on sanderling.
D. CORDATA Osb. Occurs on Hudsonian godwit.
D. CYCLOTHORAX Nitz. Infests English sparrow.
D. DISCOCEPHALA Nitz. Occurs on bald eagle.
D. EUPREPES Kell. & Chap. Occurs on turnstone.
D. FURVA Nitz. Found on plovers and phalaropes.
D. FUSCA Nitz. Occurs on hawks and eagles.
D. GRACILIS Nitz. Found on purple martin.
D. ILLUSTRIS Kell. Occurs on red-winged blackbird.
D. LATIROSTRIS Burm. Occurs on black-billed cuckoo.
D. OPACA Kell. & Chap. Found on semipalmated plover.
D. ORARIA Kell. Occurs on golden plover.
D. ORNATA Grube. Infests various gulls.

D. ORNATISSIMA Gieb. Occurs on red-winged blackbird.
D. ORPHEA Osb. Occurs on catbird.
D. PALLIDULA Harrison. Occurs on rose-breasted grosbeak.
D. PRAESTANS Kell. Occurs on terns.
D. PICTURATUS Osb. Occurs on meadow lark.
D. ROTUNDATA Osb. Infests crow.
D. SECONDARIA Osb. Also infests crow.
D. SIMPLEX Kell. Found on robin.
D. STRAMINEA Denny. Occurs on flicker and other woodpeckers.
D. TYRANNA Osb. Occurs on kingbird.

RALLICOLA Johnston and Harrison

R. CUSPIDATA Scop. Occurs on coot.
R. BISETOSA Piaget. Occurs on rails.

ORNITHOBIUS Denny

O. CYGNI Linn. Infests swan.
O. GONIOPLEURUS Denny. Occurs on the Canada goose.

ESTHIOPTERUM Harrison

E. ANSERIS Linn. Occurs on geese.
E. ARDEA Linn. Found on herons and bitterns.
E. BOTAURI Osb. Occurs on the American bittern.
E. COLUMBAE Linn. Infests domestic pigeon.
E. CRASSICORNE Scop. Common on several species of ducks.
E. INFUSCATUM Osb. Occurs on woodcock, etc.
E. LONGICORNE Piaget. Found on double-crested cormorant.
E. LURIDUM Nitz. Occurs on coot.

Order THYSANOPTERA. Thrips

PHLOEOTHRIPIDAE

ANTHOTHRIPS Uzel

A. VERBASCI Osb. Duck Brook, June 13.

Order HOMOPTERA

Fulgoridae

Cixius Latreille

C. basalis Van D. Bar Harbor, July 24.
C. miscellus Van D. Bar Harbor, Aug. 18; Echo Lake, Aug. 29 (Alexander).
C. coloepium Fitch. Bar Harbor, June 15.
C. pini Fitch. Bar Harbor; Salisbury Cove; S. W. Harbor, July 15–Aug. 26.

Bruchomorpha Newman

B. oculata Newn. Long Pond, Aug. 21.

Lamenia Stål

L. vulgaris Fitch. Witch Hole Pond; Bar Harbor; Green Mt., July 11–Aug. 17.

Kelisia Fieber

K. axialus Van D. Tremont, Aug. 23.

Megamelanus Ball

M. spartini Osb. Salisbury Cove, July 25.

Phyllodinus Van Duzee

P. nervatus Van D. Bar Harbor; Salisbury Cove; Echo Lake, July 15–24.

Laccocera Van Duzee

L. vittipennis Van D. S. W. Harbor, Aug. 20.

Stobaera Stål

S. tricarinata (Say). Salisbury Cove, July 25.

Liburniella Crawford

L. ornata Stål. Salisbury Cove, July 15.

Liburnia Stål

L. pellucida Fab. Echo Lake; Green Mt.; Bar Harbor, July 12–30.
L. puella Van D. Salisbury Cove, July 25.

CICADELLIDAE. Leaf-hoppers

AGALLIA Curtis

A. QUADRIPUNCTATA Prov. Bar Harbor; 'Narrows,' July 19–27.

A. SANGUINOLENTA Prov. Clover leaf-hopper. Bar Harbor, Aug. 18.

IDIOCERUS Lewis

I. FITCHI Van D. Salisbury Cove, July 15.

I. PROVANCHERI Van D. Green Mt., July 25.

MACROPSIS Lewis

M. SORDIDUS Van D. S. W. Harbor, July 24.

ONCOPSIS Burmeister

O. NIGRINASI Fitch. Bar Harbor; Salisbury Cove; S. W. Harbor, July 13–Aug. 30.

O. PRUNI Prov. Common, July 12–Sept. 3.

O. SOBRINUS Walk. N. E. Harbor; S. W. Harbor, July 13–Aug. 10.

ONCOMETOPIA Stål

O. LATERALIS Fab. Long Pond, Sept. 7.

CICADELLA Latreille

C. GOTHICA Sign. Echo Lake; Salisbury Cove; S. W. Harbor, July 15–Sept. 6.

HELOCHARA Fitch

H. COMMUNIS Fitch. Bar Harbor; Narrows, July 19–27.

GRAPHOCEPHALA Van Duzee

G. COCCINEA var. TELEFORMIS Walk. Bar Harbor; S. W. Harbor, July 24–Sept. 6.

DRAECULACEPHALA Ball

D. MOLLIPES Say. Echo Lake, July 12.

D. NOVABORACENSIS Fitch. Tremont; S. W. Harbor; Salisbury Cove, July 23–Aug. 23.

EVACANTHUS Le Peletier and Serville

E. ACUMINATUS Fab. Bar Harbor, July 19.

GYPONA Germar

G. OCTOLINEATA Say. 'Mt. Desert,' July 30 (McAtee).

G. OCTOLINEATA var. STRIATA Burm. Bar Harbor; Duck Brook; Salisbury Cove, July 24–Sept.

ACUCEPHALUS Germar

A. ALBIFRONS Linn. S. W. Harbor, Aug. 26–Sept. 3 (Alexander).

A. NERVOSUS Schr. Bar Harbor, Aug. 10.

HECALUS Stål

H. LINEATUS Uhler. Mouth of Northeast Creek; Narrows, July 25–27.

SCAPHOIDEUS Uhler

S. CARINATUS Osb. Bar Harbor, July 24.

S. IMMIXTUS Say. Bar Harbor; S. W. Harbor, July 20–Sept. 6.

S. SCALARIS Van D. S. W. Harbor, Sept. 6.

S. LOBATUS Van D. S. W. Harbor; Long Pond, Sept. 3–7.

PLATYMETOPIUS Burmeister

P. ACUTUS Say. Common, July 23–Sept. 8.

DELTOCEPHALUS Burmeister

D. ABDOMINALIS Fab. Salisbury Cove, July 15.

D. DEBILIS Uhler. 'Mt. Desert,' July 30 (McAtee).

D. FLAVOVIRENS G. & B. Salisbury Cove, July 15.

D. INIMICUS Say. Salisbury Cove; Bar Harbor, July 14–19.

D. SAYI Fitch. S. W. Harbor, July 13; Dry Mt., Aug. 31 (Osborn).

D. SIMPLEX Van D. Salisbury Cove; Narrows, July 25–27.

D. STRIATUS Linn. (*D. affinis* G. & B.). Bar Harbor, Aug. 10.

D. SYLVESTRIS Osb. & Ball. 'Mt. Desert,' July 30 (McAtee); S. W. Harbor, Aug. 30.

EUSCELIS Brullé

E. ANTHRACINUS Van D. S. W. Harbor; Salisbury Cove, June 27–July 15.

E. ARCTOSTAPHYLI Ball. Tremont, Aug. 23.

E. EXTRUSUS Van D. Bar Harbor, July 30.

E. HUMIDUS Osb. Tremont, July 23.

E. STRIATULUS Fallen (*plutonis* Uhler). Echo Lake, July 12.

E. STRIOLUS Fallen. Tremont, Aug. 23.

E. CUNEATUS Sand. & De L. Tremont, Aug. 23.

Eutettix Van Duzee

E. johnsoni Van D. S. W. Harbor, Aug. 26 (Alexander).

Phlepsius Fieber

P. fuscipennis Van D. Tremont, Aug. 23.
P. fulvidorsum Fitch. Echo Lake; Dry Mt., Aug. 29–31 (Osborn).
P. irroratus Say. S. W. Harbor, Sept. 6.

Thamnotettix Zetterstedt

T. belli Uhler. Eagle Lake, July 18.
T. chlamydatus Prov. Long Pond; Eagle Lake, July 16–18.
T. clitellarius Say. Saddle-backed leaf-hopper. Bar Harbor, July 20.
T. decipiens Prov. S. W. Harbor, Aug. 26.
T. eburatus Van D. Bar Harbor, Aug. 10; S. W. Harbor, Sept. 3 (Alexander).
T. kennicotti Uhler. S. W. Harbor, Sept. 3 (Alexander).
T. melanogaster Prov. S. W. Harbor; Echo Lake, Aug. 26–29 (Alexander).
T. smithi Van D. Salisbury Cove, July 15.
T. subcupraeus Prov. Tremont, Aug. 23; Echo Lake, Sept. 7.
T. waldanus Ball. Bar Harbor, July 24.

Chlorotettix Van Duzee

C. unicolor Fitch. Bar Harbor, July 24.

Cicadula Zetterstedt

C. sexnotata Fallén. S. W. Harbor, July 13.
C. slossoni Van D. S. W. Harbor, July 13–Aug. 20.

Balclutha Kirkaldy

B. punctata Thunb. Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 6.

Empoasca Walsh

E. atrolabes Gillette. Salisbury Cove, July 15.
E. flavescens Fab. Bar Harbor, July 24.
E. obtusa Walsh. 'Mt. Desert,' July 30 (McAtee).
E. unica Prov. S. W. Harbor, Sept. 6.

Typhlocyba Germar

T. flavoscuta Gillette. Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 5.

T. nigra Osb. Bar Harbor, July 10–Aug. 31.

T. vanduzei Gillette. Bar Harbor, Aug. 10.

Empoa Fitch

E. querci var. gillettei Van D. (*T. bifasciata* G. & B.). Bar Harbor; S. W. Harbor, July 24–Sept. 5.

Erythroneura Fitch

E. comes var. ziczac Walsh. S. W. Harbor, July 13. On woodbine (*Ampelopsis*).

E. obliqua Say. Long Pond, Sept. 7, 1922.

Membracidae. Tree-hoppers

Campylenchia Stål

C. latipes Say. Bar Harbor; S. W. Harbor, July 24–Aug. 21.

Ceresa Amyot and Serville

C. basalis Walk. N. E. Harbor (Minot); S. W. Harbor, Aug. 26–Sept. 6.

Carynota Fitch

C. stupida Walk. Salisbury Cove, July 15, on birch (Olsen).

Cyrtolobus Goding

C. intermedius Emmons. Bar Harbor, June 21.

Ophiderma Fairmaire

O. flava Goding. Bar Harbor, June 21.

Publilia Stål

P. concava Say. Common, June 10–Sept. 6.

Cercopidae. Spittle-insects

Aphrophora Germar

A. signoretii Fitch. Bar Harbor; Salisbury Cove; N. E. Harbor, July 11–Aug. 24.

A. quadrinotata Say. S. W. Harbor, Sept. 6.

Lepyronia Amyot and Serville

L. quadrangularis Say. S. W. Harbor, Sept. 6.

PHILAENUS Stål

P. SPUMARIUS Linn. Common and showing following variations.
var. USTULATUS Fall. The common form: July 13–Aug. 21.
var. LEUCOPHTHALMUS Linn. S. W. Harbor; Echo Lake; Narrows, July 13–Aug. 29.
var. LEUCOCEPHALUS Linn. S. W. Harbor, July 13.
var. LINEATA Fab. S. W. Harbor; Long Pond; Narrows, July 15–27.
var. PALLIDUS Zett. S. W. Harbor; Salisbury Cove, July 13–14.
P. LINEATUS Linn. S. W. Harbor; Salisbury Cove, July 13–15.

PHILARONIA Ball

P. BILINEATA Say. 'Grass spittle bug.' Narrows, July 27–Aug. 13.

CLASTOPTERA Germar

C. OBTUSA Say. 'Alder spittle bug.' Witch Hole Pond; Long Pond, July 30–Aug. 21.
C. PROTEUS Fitch. Bar Harbor; S. W. Harbor, July 30–Aug. 21.
var. VITTATA Ball. Bar Harbor, Aug. 18.
var. PINI Fitch. Bar Harbor; Tremont; S. W. Harbor, July 30–Sept. 6.

CICADIDAE

TIBICEN Latreille

T. CANICULARIS Harr. Quite common during August.

PSYLLIDAE. Jumping plant-lice

LIVIA Latreille

L. VERNALIS Fitch. Seal Cove Brook, Sept. 8.
L. MACULIPENNIS Fitch. S. W. Harbor, Aug. 20. The nymphs develop in a gall formed on rush, *Juncus*.

APHALARA Foerster

A. VEAZIEI Patch. 'Mt. Desert,' July 30 (McAtee).

TRIOZA Foerster

T. TRIPUNCTATA Fitch. Common at the foot of Western Mt., July to Sept. The nymphs are gregarious on the under side of the terminal leaves of the blackberry, causing them to curl and form rosette-like bunches.

PSYLLA Geoffroy

P. ANNULATA Fitch. 'Mt. Desert,' July 30 (McAtee). The nymphs live on maple.

P. FLOCCOSA Patch. 'Mt. Desert,' July 30 (McAtee). The nymphs live on the growing twigs of alder.

P. CARPINICOLA Crawf. Salisbury Cove; S. W. Harbor, July 15–Aug. 30.

P. TRIMACULATA Crawf. Salisbury Cove; S. W. Harbor, July 15–Aug. 30.

APHIDIDAE. Plant-lice

ERIOSOMA Leach

E. LANIGERUM Hausm. Woolly aphid. Bar Harbor. The brood from the over-wintering eggs form the leaf clusters known as 'rosettes' on the elm, then migrate to the apple and thorn, and return to the elm in the fall.

PROCIPHILUS Koch

P. TESSELLATA Fitch. Woolly Alder aphid. Migrates between the maple and alder.

MELAPHIS Walsh

M. RHOIS Fitch. Large rounded galls on the leaves of the staghorn sumach. 'Mt. Desert' (J. G. Jack).

PEMPHIGUS Hartig

P. POPULI-CAULIS Fitch. Bar Harbor; Salisbury Cove, Aug. Forms galls at the base of the leaves of poplar.

HORMAPHIS Osten Sacken

H. HAMAMELIDIS Fitch. Bar Harbor. Forming conical galls on the leaves of the witch hazel (*Hamamelis virginica*) and migrating to birch (*Betula*).

CHERMES Linnaeus

C. ABIETIS Linn. Spruce gall aphid. Bar Harbor. Forms the 'pineapple gall' on spruce.

C. STROBILOBIUS Kaltenbach. The woolly larch gall. Salisbury Cove.

COCCIDAE. Scale insects

LEPIDOSAPHES Shimer

L. ULMI Linn. (*Mytilas pis pomorum* auct.). Oyster-shell bark scale. Common, ash, mountain ash, and willow.

LEUCANIUM Burmeister

L. QUERCIFEX Fitch. Oak scale. Bar Harbor and Salisbury Cove on red oak.

Order HEMIPTERA

CORIXIDAE. Water-boatman

ARCTOCORISA Wallengren

A. CONOCEPHALA Hungf. S. W. Harbor, July 15.

A. DECOROTELLA Hungf. S. W. Harbor, July 14–18.

A. INTERRUPTA Say. Bar Harbor; Salisbury Cove, June 14–Aug. 10.

A. MAEROPALA Hungf. S. W. Harbor, June 18.

A. NITIDA var. minor Abbt. Salisbury Cove, July 18–Aug. 10.

A. SERIATA Abbt. Salisbury Cove, Aug. 11.

A. VULGARIS Hungf. Salisbury Cove, Aug. 10.

BELOSTOMATIDAE. Giant water-bugs

LETHOCERUS Mayr

L. AMERICANUS Leidy. Bar Harbor, July 29; small pond on hill east of Salisbury Cove, Aug. 11, nymphs only.

NEPIDAE. Water-scorpions

RANATRA Fabricius

R. FUSCA Pal.-Beauv. (*americana* Mont.). Bar Harbor, July 29; small pond on hill east of Salisbury Cove, Aug. 11 (nymphs).

NOTONECTIDAE

NOTONECTA Linnaeus. Back-swimmers

N. UNDULATA Say. Lily Pond, Bar Harbor, July 29; Salisbury Cove, Aug. 10.

SALDIDAE. Shore-bugs

SALDULA Van Duzee

S. INTERSTITIALIS Say. Narrows, Aug. 13.
S. MAJOR Prov. Bar Harbor; S. W. Harbor, June 11–July 15.
S. PALLIPES Fab. Narrows, Aug. 13.

LAMPRACANTHIA Reuter

L. CORIACEA Uhler. S. W. Harbor; Narrows, June 18–July 17

VELIIDAE

RHAGOVELIA Mayr

R. OBESA Uhler. Duck Brook, Aug. 18.

GERRIDAE. Water-striders

GERRIS Fabricius

G. ARGENTICOLLIS Parsh. 'Mt. Desert,' July 28 (McAtee).
G. BUENOI Kirk. Salisbury Cove; Bar Harbor, Aug. 10, 11.
G. MARGINATUS Say. Ice pond, Manset; S. W. Harbor, June 18–July 13.
G. REMIGIS Say. Duck Brook; Bar Harbor; Manset, June 11–Aug. 18.
G. (LIMNOPORUS) RUFOSCUTELLATUS Latr. Bar Harbor; Salisbury Cove, June 14–July 18.

TREPOBATES Uhler

T. PICTUS H.-Sch. Ice pond, Manset, June 18.

MIRIDAE. Leaf-bugs

PLAGIOGNATHUS Fieber

P. CHRYSANTHEMI Wolff. Bar Harbor; S. W. Harbor, July 8–14.
P. OBSCURUS Uhler. Bar Harbor, July 19–Aug. 10.

RHINOCAPSUS Uhler

R. VANDUZEII Uhler. Narrows, Aug. 13.

LOPUS Hahn

L. DECOLOR Fall. Salisbury Cove; Bar Harbor, July 15–22.

MACROSTYLUS Fieber

M. SEXGUTTATUS Prov. Echo Lake, July 12.

ORECTODERUS UHLER

O. OBLIQUUS Uhler. S. W. Harbor; Salisbury Cove, June 16–July 13.

DICYPHUS Uhler

D. AGILIS Uhler. Long Pond, July 16.

MACROLOPHUS Fieber

M. SEPARATUS Uhler. Green Mt., July 25.

MONALCORIS Dahlbom

M. FILICIS Linn. Bar Harbor, June 11–July 22.

STRONGYLOCORIS Blanchard

S. STYGICUS Say. Salisbury Cove; Bar Harbor, July 15–17.

ORTHOCEPHALUS Fieber

O. MUTABILIS Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–July 15.

ILNACORA Reuter

I. MALINA Uhler. Salisbury Cove, July 13.

MECOMMA Fieber

M. AMBULANS Fall. Salisbury Cove; S. W. Harbor, July 15–Sept. 13.

ORTHOTYLUS Fieber

O. CATULUS Van D. S. W. Harbor, July 13.

O. FLAVOSPARSUS Sahl. S. W. Harbor, July 13.

CERATOCAPSUS Reuter

C. PUMILUS Uhler. S. W. Harbor, Sept. 3 (Alexander).

PITHANUS Fieber

P. MAERKELI H.-Sch. Bar Harbor; S. W. Harbor; Salisbury Cove, June 22–July 19.

COLLARIA Provancher

C. MEILLEURII Prov. S. W. Harbor, July 13.

MIRIS Fabricius

M. DOLABRATUS Linn. S. W. Harbor; Salisbury Cove, July 11–18.

TRIGONOTYLUS Fieber

T. RUFICORNIS Geoff. Salisbury Cove; 'Narrows,' July 15–27.

STENODEMA Laporte

S. TRISPINOSUM Reut. S. W. Harbor; Bar Harbor, July 13–Aug. 14.

S. VICINUM Prov. Narrows; Bar Harbor; S. W. Harbor, July 27–Sept. 6.

PLATYTYLELLUS Reuter

P. INSIGNIS Say. S. W. Harbor, Aug. 23.

NEOBORUS Reuter

N. AMOENUS Reut. S. W. Harbor, July 24.

CAPSUS Fabricius

C. ATER Linn. Bar Harbor; Salisbury Cove, June 11–July 15.

C. ATER var. TYRANNUS Fab. Bar Harbor, June 11.

C. ATER var. SEMIFLAVUS Linn. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–July 15.

LYGUS Hahn

L. CAMPESTRIS Linn. Narrows; S. W. Harbor, Aug. 13–Sept. 6.

L. PRATENSIS Linn. Tarnished plant-bug. Common, June 27–Sept. 27. It feeds on a great many vegetables and flowering plants.

L. VANDUZEEI Knight. Common, July 13–Sept. 27.

L. VANDUZEEI var. RUBROCLARUS Knight. S. W. Harbor, July 13.

L. COMMUNIS Knight. S. W. Harbor, July 13.

L. HIRTICULUS Van D. Common, July 6–Sept. 3.

L. OMNIVAGUS Knight. Bar Harbor, July 19.

L. PABULINUS Linn. Echo Lake, July 17.

L. VITTICOLLIS Reut. N. E. Harbor (Minot); Echo Lake, July 6–17.

POLYMERUS Hahn. (*Poecilocystus* of authors)

P. VENATICUS Uhler. 'Mt. Desert.'

POECILOCAPSUS Reuter

P. LINEATUS Fab. Bar Harbor; S. W. Harbor, July 13–20.

ADELPHOCORIS Reuter

A. RAPIDUS Say. S. W. Harbor, July 11.

CALOCORIS Fieber

C. NORVEGICUS Gmel. Salisbury Cove; Bar Harbor, July 18–19.

PHYTOCORIS Fallén

P. EXIMIUS Reut. Bar Harbor; N. E. Harbor (Minot), July 20–Aug. 19.

P. NEGLECTA Knight. N. E. Harbor, July 26 (Minot).

MESOVELIIDAE

MESOVELIA Mulsant and Rey

M. BISIGNATA Uhler (*M. mulsanti* auct.). 'Mt. Desert,' July 30 (McAtee).

REDUVIIDAE. Assassin bugs

ZELUS Fabricius

Z. SOCIUS Uhler. N. E. Harbor, July 21 (Minot).

SINEA Amyot and Serville

S. DIADEMA Fab. S. W. Harbor, Aug. 24–Sept. 6.

BARCE Stål

B. ANNULIPES Stål. Tremont, Aug. 23.

TINGIDAE. Lace bugs

CORYTHUCHA Stål

C. JUGLANDIS Fitch. Common, June 7–Sept. 2.

C. MARMORATA Uhler. Narrows; Seal Cove Brook, July 14–Sept. 8.

GALEATUS Curtis

G. PECKHAMI Ashm. Salisbury Cove, July 15 (Olsen).

LEPTOBYRSA Stål

L. RHODODENDRI Horváth. Rhododendron lace bug. Witch Hole Pond; Bar Harbor; S. W. Harbor, July 30–Sept. 3.

MELANORHOPALA Stål

M. CLAVATA Stål. Bar Harbor; Beehive (Sanford); Salisbury Cove, July 24–Aug. 15.

ANTHOCORIDAE. Flower-bugs

ANTHOCORIS Fallén

A. BOREALIS Dallas. Bar Harbor; Salisbury Cove; S. W. Harbor (female), June 11–Sept. 6.

TRIPHLEPS Fieber

T. INSIDIOSA Say. Bar Harbor; S. W. Harbor, July 11–Sept. 6.

CIMIDIDAE

CIMEX Linnaeus

C. LECTULARIUS Linn. Common bed-bug.

NABIDAE

PAGASA Stål

P. FUSCA Stein. Bar Harbor (Moore).

NABIS Latreille

N. FERUS Linn. S. W. Harbor, Sept. 6.

N. RUFUSCULUS Reut. Echo Lake; S. W. Harbor, July 12–15.

N. (DOLICHONABIS) LIMBATUS Dahl. Salisbury Cove, Aug. 7 (Sanford).

N. (DOLICHONABIS) PROPINQUUS Reut. Mouth of Northeast Creek, July 25.

N. (NABICULA) SUBCOLEOPTRATUS Kby. S. W. Harbor; Salisbury Cove, July 15–Aug. 20.

LYGAEIDAE

LYGAEUS Fabricius

L. KALMII Stål. Salisbury Cove, July 17 (Sanford).

ORTHOLOMUS Stål

O. SCOLAPAX Say (*longiceps* Stål). Tremont, Aug. 23.

NYSIUS Dallas

N. ERICAE Schilling. Narrows; Tremont, Aug. 13–23.

N. THYMI Wollf. Narrows, June 17–Aug. 13.

ISCHNORHYNCHUS Fieber

I. GEMINATUS Say. Tremont; S. W. Harbor, Aug. 23–30.

CYMUS Hahn

C. ANGUSTATUS Stål. Narrows; Salisbury Cove, June 9–July 15.

C. DISCORS Horváth. Echo Lake; S. W. Harbor; Salisbury Cove, July 12–15.

C. LURIDA Stål. S. W. Harbor; Tremont, July 11–Aug. 30.

BLISSUS Burmeister

B. LEUCOPTERUS var. HIRTUS Mont. Chinch bug. Salisbury Cove, July 13.

GEOCORIS Fallén

G. BULLATUS Say. Bar Harbor, July 6 (Sanford).

G. ULIGINOSUS Say. S. W. Harbor, Sept. 6.

PHLEGYAS Stål

P. ABBREVIATUS Uhler. Salisbury Cove, July 13–15.

LIGYROCORIS Stål

L. DIFFUSUS Uhler. Salisbury Cove; S. W. Harbor, July 13–Sept. 6.

L. SYLVESTRIS Linn. (*L. contractus* Say). S. W. Harbor, June 18–Sept. 6.

DRYMUS Fieber

D. UNUS Say. N. E. Harbor, Sept. 27 (Minot).

ARADIDAE. Flat-bugs

ARADUS Fabricius

A. QUADRILINEATUS Say. Bar Harbor, July 22–27. Under bark.

A. SIMILIS Say. Jordan Pond, June 9; The Beehive, Aug. 13 (Sanford).

A. ABBAS Bergroth. Salisbury Cove, July 14.

A. NIGER Stål. S. W. Harbor, July 11. Under bark.

COREIDAE

MEROCORIS Perty

M. DISTINCTUS Dallas. Salisbury Cove, Aug. 7, 1926.

ALYDIDAE

PROTENOR Haglund

P. BELFRAGEI Hagl. Meadow Brook, near Bar Harbor, Sept. 13; Meadow, Salisbury Cove, Aug. 7.

ALYDUS Fabricius

A. CONSPERSUS Mont. S. W. Harbor, June 21.

CORIZIDAE

CORIZUS Fallén

C. CRASSICORNIS Linn. S. W. Harbor; Bar Harbor, June 20–Sept. 13.

PENTATOMIDAE

SCIOCORIS Fallén

S. MICROPHTHALMUS Flor. S. W. Harbor, Aug. 1, 1887 (Fernald).

PERIBALUS Mulsant and Rey

P. LIMBOLARIUS Stål. Salisbury Cove, June 9; S. W. Harbor, July 20.

CHLOROCHROA Stål

C. UHLERI Stål. S. W. Harbor (Fernald).

EUSCHISTUS Dallas

E. EUSCHISTOIDES Voll. (*E. fissilis* Uhl). Bar Harbor, July 20–Aug. 13.

E. TRISTIGMUS Say. Bar Harbor, June 15; N. E. Harbor, Sept. 22 (Minot).

COENUS Dallas

C. DELIUS Say. Bar Harbor (Parshley).

NEOTTIGLOSSA Kirby

N. UNDATA Say. Common, July 17–Sept. 12.

COSMOPEPLA Stål

C. BIMACULATA Thomas. Bar Harbor; S. W. Harbor; Salisbury Cove, June 7–July 19.

BANASA Stål

B. DIMIDIATA Say. Bar Harbor; Seal Harbor; S. W. Harbor, June 7–Aug. 18.

MEADORUS Mulsant and Rey

M. LATERALIS Say. Bar Harbor; N. E. Harbor; S. W. Harbor, July 20–Aug. 3.

ELASMOSTETHUS Fieber

E. CRUCIATUS Say. Common, July 15–Sept. 27.

MARINE BIOLOGICAL LABORATORY WOODS HOLE LIBRARY MASS.

Perillus Stål

P. exaptus Say. S. W. Harbor, Aug. 24.

Apateticus Dallas

A. bracteatus Fitch. Narrows, Aug. 13.

A. cynicus Say. Salisbury Cove, July 25–Aug. 10.

Podisus Herrich-Schaeffer

P. modestus Dallas. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–July 19.

Cydnidae

Corimelaena White

C. pulicaria Germar. Bar Harbor; Salisbury Cove (Sanford), Aug. 10, 11.

Sehirus Amyot and Serville

S. cinctus Pal. Beauv. Common, June 20–Aug. 10.

Scutelleridae

Homaemus Dallas

H. aeneiforus Say. Salisbury Cove; S. W. Harbor, June 20–Sept. 6.

Eurygaster Laporte

E. alternata Say. S. W. Harbor; Salisbury Cove, June 21–July 25.

Order MECOPTERA

Panorpidae. Scorpion flies

Panorpa Linnaeus

P. rufescens Ramb. S. W. Harbor, Aug. 21.

P. maculosa Hag. Bar Harbor; Green Mt., Aug. 10–17.

P. subfurcata Westw. Echo Lake; S. W. Harbor; Salisbury Cove, July 12–Sept. 7.

Order TRICHOPTERA. Caddice-flies

Phryganeidae

Phryganea Linnaeus

P. cinerea Walk. N. E. Harbor, Aug. 24 (Minot).

NEURONIA Leach

N. CANADENSIS Banks. S. W. Harbor, July 15.
N. DOSSUARIA Say. N. E. Harbor, July 1 (Minot).
N. SEMIFASCIATA Say. S. W. Harbor, June 24–27.

LIMNEPHILIDAE

LIMNEPHILUS Leach

L. COMBINATUS Walk. Salisbury Cove, Aug. 7.
L. DESPECTUS Walk. Bar Harbor; S. W. Harbor, June 24–July 21.
L. MOESTUS Banks. Salisbury Cove; N. E. Harbor, July 25–Aug. 11.
L. PERFORATUS Walk. S. W. Harbor, Aug. 24.
L. SUBMONILIFER Walk. N. E. Harbor, Sept. 27 (Minot).
L. ALBOSTICTUS Hag.? Witch Hole Pond, June 13.

COLPOTAULIUS Kolenati

C. CONSOCIA Walk. S. W. Harbor; N. E. Harbor, July 26–Aug. 23.

PLATYCENTROPUS Ulmer

P. MACULIPENNIS Kolen. (*hostis* Hag.). Salisbury Cove; S. W. Harbor, July 15–29.

PYCNOPSYCHE Banks

P. GUTTIFER Walk. Echo Lake; Duck Brook, Sept. 7–11.

NEOPHYLAX McLachlan

N. AUTUMNUS Vosh. S. W. Harbor (Alexander); Seal Cove, Sept. 5–8.

RHYACOPHILIDAE

RHYACOPHILA Pictet

R. LUCTUOSA Banks. Long Pond, July 16.
R. TERMINATA Banks. Bar Harbor; Duck Brook, June 17–July 30.

CHIMARRHA Leach

C. ATERRIMA Hag. Bar Harbor; Long Pond; Seal Cove Brook, June 10–Sept. 8.

SERICOSTOMATIDAE

HELICOPSYCHE Hagen

H. BOREALIS Hag. Echo Lake, July 17.

OLEMIRA Banks

O. AMERICANA Banks. Bar Harbor, July 17.

LEPTOCERIDAE

TRIAENODES McLachlan

T. FLAVESCENS Banks. Echo Lake, July 12.

LEPTOCELLA Banks

L. EXQUISITA Walk. Great Pond, June 20.

OECETINA Banks

OE. INCONSPICUA Walk. S. W. Harbor, July; Witch Hole Pond, July 30.

MYSTACIDES Latreille

M. NIGRA Linn. Echo Lake, July 12.

HYDROPSYCHIDAE

HYDROPSYCHE Pictet

H. sp. Duck Brook; Bar Harbor, July 30.

POLYCENTROPUS Curtis

P. CONFUSUS Hag. Bar Harbor, July 21.
P. sp. Bar Harbor; Witch Hole Pond, July 22–30.

HOLOCENTROPUS McLachlan

H. INTERRUPTUS Banks. S. W. Harbor, June 20.
H. sp. Bar Harbor, June 21.

PHYLOCENTROPUS Banks

P. LUCIDUS Hag. Echo Lake; Bar Harbor, July 17–30.

PHILOPOTAMUS Leach

P. DISTINCTUS Walk. Duck Brook, July 30.

ARCTOPSYCHE McLachlan

A. APICALIS Banks. Long Pond, July 16.

Order LEPIDOPTERA. Moths and butterflies

MICROPTERYGIDAE

MICROPTERYX Hübner

M. AURICRINELLA Walshm. Long Pond, July 27.

EUCLEIDAE (*Cochlidiidae, Limacoididae*). Slug caterpillars

Tortricidia Packard

T. flexuosa Grt. N. E. Harbor (Minot); Echo Lake, July 4–17.

T. testacea Pack. N. E. Harbor, June 26 (Minot). The larva feeds on oak, birch, wild cherry, etc.

Lithacodes Packard

L. fasciola H.-Sch. Bar Harbor; N. E. Harbor, July 11–24. The larva feeds on maple, apple, huckleberry, etc.

Packardia Grote and Robinson

P. elegans Pack. Jordan Pond, June 10. The larva feeds on orchard and shade trees.

P. geminata Pack. Bar Harbor, June 17. The larva feeds on wild cherry.

Tineidae

Monopis Hübner (*Blabophanes* H.-Sch.)

M. biflavimaculella Clem. N. E. Harbor, Aug. 22 (Minot).

M. monachella Hbn. Salisbury Cove, Aug. 7.

Tinea Linnaeus

T. sp. N. E. Harbor, July 30 (Minot).

Tineola Herrich-Schaeffer

T. bisselliella Hum. The clothes moth.

Amydria Clemens

A. effrenatella Clem. N. E. Harbor, July 16 (Minot).

Lyonetiidae

Phyllocnistis Zeller

P. populiella Cham. Bar Harbor, Aug. The larva mines the leaves of poplars.

Coleophoridae

Coleophora Hübner

C. coruscipennella Clem. Salisbury Cove, July 25.

Oecophoridae (*Depressariidae*)

Cryptolechia Zeller (*Machimia* Clem.)

C. tentoriferella Clem. Salisbury Cove; N. E. Harbor (Minot), Aug. 20–Sept. 14. The larva feeds on oak, cherry, maple, etc., forming a web on the under side of the leaves.

AGNOPTERYX Hübner

A. ATRODORSELLA Clem. N. E. Harbor, Sept. 6 (Minot). The larva feeds on Bidens, folding the leaf lengthwise.

A. PULVIPENNELLA Clem. N. E. Harbor, Sept. 5 (Minot). The larva feeds on Solidago and Eupatorium, folding the leaf lengthwise.

A. ALLENELLA Walshm. S. W. Harbor; N. E. Harbor, June 24–Sept. 5.

A. ROBINIELLA Pack. Salisbury Cove, July 27. The larva feed on locust (*Robinia*).

DEPRESSARIA Haworth

D. HERACLIANA De G. Salisbury Cove. Larva and pupa, July 17, imago, July 30. Common on the cow parsnip; the young larvae feed on the leaves and the larger larvae bore into the stalks to pupate.

D. ALIENELLA Busck. Salisbury Cove, Aug. 25 (Dahlgren). The larva feeds on Artemesia.

SEMIOSCOPIS Hübner

S. PACKARDELLA Clem. Bar Harbor, June 22.

S. ALLENELLA Walshm. N. E. Harbor, Aug. 21 (Minot). The larva feeds on oak.

XYLORICTIDAE (*Stenomidae*)

STENOMA Zeller

S. SCHLAEGERI Zell. N. E. Harbor, July 16 (Minot). The larva feeds on oak.

S. ALGIDELLA Walk. N. E. Harbor, July 1–28 (Minot). The larva feeds on maple, etc.

GELECHIIDAE

GELECHIA Hübner

G. TRIALBAMACULELLA Chamb. N. E. Harbor, July 3 (Minot). The larva feeds on locust, oak, sweet fern, and huckleberry, living in a nest between two leaves.

GNORIMOSCHEMA Busck

G. GALLAESOLIDAGINIS Riley. Salisbury Cove; Bar Harbor; N. E. Harbor, June–July. The larvae live in the stems of goldenrod, forming fusiform galls.

Trichotaphe Clemens

T. juncidella Clem. N. E. Harbor, July 4 (Minot). The larva is a leaf roller on aster, goldenrod, etc.

T. flavocostella Clem. Salisbury Cove, July 27. The larva feeds on solidago.

Lavernidae

Limnaecia Stainton

L. phragmitella Stain. N. E. Harbor, July 16 (Minot). The larvae live in the seed-heads of the cat-tail, causing them to fluff out.

Yponomeutidae

Argyresthia Hübner

A. goedertella Linn. N. E. Harbor (Minot); Bar Harbor, Aug. 11–Sept. 13. The larvae live in the catkins of birch and alder.

A. oreasella Clem. S. W. Harbor, July 15.

A. thuiella Pack. Bar Harbor, Sept. The larva mines the leaves of the arborvitae.

Glyphipterygidae

Choreutis Hübner

C. onustana Walk. N. E. Harbor, July 1 (Minot).

Allononyma Busck

A. vicarialis Zell. Echo Lake, July 29 (Alexander).

Aegeriidae (*Sesiidae*)

Memythrus Newman

M. pyramidalis Walk. S. W. Harbor; Bar Harbor, June 26–July 11.

Synanthedon Hübner (*Conopia* Hübner)

S. corni Hy.Edw. Bar Harbor; Dry Mt. (Sanford), July 10–17.

S. fulvipes Harr. Bar Harbor, June 17.

S. pictipes Grt. and Rob. S. W. Harbor; Bar Harbor; Mt. Cadillac, June 26–July 25. The larva bores in cherry, shadbush, etc.

S. scitula Harr. Bar Harbor, July 22. The larva frequents oak, *Crataegus,* etc.

S. TIPULIFORMIS Linn. The currant borer. Bar Harbor, July 26; Seal Harbor (David Rockefeller).

S. PYRI Harr. S. W. Harbor, June 26. The larva bores in apple, pear, etc.

S. ALBICORNIS Hy.Edw. Salisbury Cove, Aug. 10. The larva bores in willow and poplar.

TORTRICIDAE

EPINOTIA Hübner

E. SOLICITANA Walk. N. E. Harbor; Salisbury Cove, July 19–Sept. 4. Larva feeds on white birch.

E. TRANSMISSANA Walk. N. E. Harbor, July 8 (Minot).

ANCYLIS Hübner

A. APICANA Walk. N. E. Harbor, July 8 (Minot). Larva feeds on raspberry.

A. TINEANA Hbn. S. W. Harbor, July 11. Larva feeds on poplar and various Rosaceae.

ANCHYLOPERA Stephens

A. NEBECULANA Clem. N. E. Harbor, July 16 (Minot). The larva is a leaf-roller on apple, etc.

A. SUBAEQUANA Zell. S. W. Harbor; N. E. Harbor (Minot), July 6–13.

EPIBLEMA Hübner

E. SUFFUSANA Zell. N. E. Harbor, July 4–Aug. 24. The larva feeds on the buds and flowers of the rose.

EUCOSMA Hübner

E. DORSISIGNATANA Clem. Salisbury Cove; N. E. Harbor, Aug. 7–25. Larva feeds in roots of goldenrod.

E. SIMILANS Clem. N. E. Harbor, Sept. 24 (Minot).

THIODIA Hübner

T. OCHROTERMINANA Kearf. N. E. Harbor, Aug. 5 (Minot).

GYPSONOMA Meyrick

G. FASCIOLANA Clem. N. E. Harbor, July 13 (Minot).

OLETHREUTES Hübner

O. BIPARTITANA Clem. N. E. Harbor; Salisbury Cove, July 1–Aug. 26.

O. CAPREANA Hbn. N. E. Harbor, July 22 (Minot).

O. FUSCALBANA Zell. Echo Lake; N. E. Harbor, July 12–Aug. 25.

O. CAMPESTRANA Zell. (*dealbana* auct.). S. W. Harbor, July 15. Larva feeds on cherry.

O. ALBEOLANA Zell. Salisbury Cove, Aug. 7. The larva is a leaf-roller on white birch.

O. HEMIDESMA Zell. Salisbury Cove, Aug. 7. The larva webs the leaves and flowers of Spiraea.

O. CONSTELLATANA Zell. S. W. Harbor, June 18.

O. ALBICILIANA Fern. Salisbury Cove, July 23. The larva is purple, a leaf-roller on Spiraea.

CYMOLOMIA Lederer (*Exartema* Clemens)

C. FASCIATANA Clem. Salisbury Cove, Aug. 7. The larva feeds on Rumex.

C. OLIVACEANA Fern. Salisbury Cove, Aug. 7.

C. ZELLERIANA Fern. Salisbury Cove, Aug. 7. The larva crumples the leaves of white birch.

SPARGANOTHIS Hübner

S. IRROREA Rob. N. E. Harbor, July 16–Aug. 20 (Minot).

S. SULFUREANA Clem. Bar Harbor; Green Mt., July 21–25. The larva feeds on willow, strawberry, etc.

S. RETICULATANA Clem. N. E. Harbor, Sept. 4 (Minot); Salisbury Cove, Aug. 25 (Dahlgren). The larva feeds on oak, maple, pear, rose, etc.

ARGYROTOXA Stephens

A. ALBICOMANA Clem. N. E. Harbor; Salisbury Cove, July 18–Aug. 7. The larva feeds on rose.

A. CURVALANA Kearf. N. E. Harbor, Aug. 11 (Minot).

PERONEA Curtis

P. EFFRACTANA Froel. N. E. Harbor, July 16 (Minot). The larva feeds on poplar, willow, and birch.

P. VARIANA Fern. N. E. Harbor, July 30–Aug. 15 (Minot).

Harmologa Meyrick

H. fumiferana Clem. The spruce bud-worm. N. E. Harbor, July 27, 1911. Sometimes very injurious to the spruce. It was especially abundant in 1914.

Eulia Hübner

E. ministrana Linn. Bar Harbor; N. E. Harbor; S. W. Harbor, June 16–July 15. The larva is a general feeder, folding the leaves of trees and shrubs.

E. quercifoliana Fitch. Bar Harbor, June 24. The larva feeds on oak.

Tortrix Linnaeus

T. alleniana Fern. Bar Harbor, July 19. The larva is a general feeder.

Archips Hübner (*Cacaecia* Hübner)

A. purpurana Clem. Green Mt., July 27. The larva feeds on geranium, etc.

A. roseana Harr. Bar Harbor, July 11. The larva feeds on rose, apple, etc.

A. cerasivorana Fitch. S. W. Harbor; Salisbury Cove, July 27–Aug. 1. The larvae are social, forming large ugly nests on the wild cherry.

A. persicana Fitch. Bar Harbor, June 15. The larva feeds on various plants.

A. melaleucana Walk. Bar Harbor; N. E. Harbor, June 11–July 16. The larva feeds on Trillium.

Phaloniidae

Pharmacis Hübner

P. vitellinana Zell. N. E. Harbor; Salisbury Cove, July 16–Sept. 5.

Phalonia Hübner

P. bunteana Rob. N. E. Harbor, July 31 (Minot). The larva feeds on Lactuca.

P. eduana Kearf. N. E. Harbor; Bar Harbor, Aug. 5–16.

Pyralididae. Snout moths

Aphomia Hübner

A. sociella Linn. Bar Harbor, July (Moore). The larva lives in nests of bumblebee and wasps.

DESMIA Westwood

D. FENERALIS Hbn. N. E. Harbor, Aug. 10 (Minot). In the absence of grape, the larva will feed on the evening primrose.

BLEPHAROMASTIX Lederer

B. STENIALIS Guen. N. E. Harbor, July 8–20 (Minot).

EVERGESTIS Hübner

E. STRAMINALIS Hbn. The 'Purple-backed cabbage worm.' N. E. Harbor, Aug. 9 (Minot).

NOMOPHILA Hübner

N. NOCTUELLA Schiff. Common, June–Sept. The larva feeds on Polygonum, etc.

PHLYCTAENIA Hübner

P. TERREALIS Treit. N. E. Harbor; S. W. Harbor, June 24–July 26. The larva feeds on Solidago.

P. EXTRICALIS Guen. S. W. Harbor, July 10. The larva is a leaf-roller on alder.

P. TERTIALIS Guen. Salisbury Cove; N. E. Harbor, July 27–Sept. 3. The larva lives in the pith of elder.

P. FUMALIS Guen. Salisbury Cove, July 24–Aug. 25.

PYRAUSTA Schrank

P. PERTEXTALIS Ledr. Eagle Lake; N. E. Harbor, July 18–Aug. 5.

P. SUBMEDIALIS Grt. N. E. Harbor, July 18.

P. FUNEBRIS Ström. Bar Harbor; N. E. Harbor; S. W. Harbor, June 21–July 10. The larva lives on the basal leaves of Solidago.

P. FUMOFERALIS Hulst. Long Pond, June 27.

NYMPHULA Schrank

N. ICCIUSALIS Walk. S. W. Harbor, July 28. The larva (lives) on pondweed, Potamogeton, and other aquatic plants.

N. MACULALIS Clem. Bar Harbor; Salisbury Cove, Aug. 14–25. The larva feeds on the water lilies.

N. ALLIONEALIS Walk, race ITEALIS Walk. Bar Harbor, Aug. 16.

GESHNA Dyar

G. PRIMORDIALIS Dyar. N. E. Harbor, July 17 (Minot).

EURRHYPARA Hübner

E. URTICATA Linn. Salisbury Cove, July, 1926 (Dahlgren). The larva feeds on nettle. A European species first recorded from Nova Scotia.

SCOPARIA Haworth

S. BASALIS Walk. N. E. Harbor; Salisbury Cove, July 31–Aug. 25.

S. LUGUBRALIS Walk. Salisbury Cove, Aug. 25 (Dahlgren).

PYRALIS Linnaeus

P. FARINALIS Linn. Meal moth. N. E. Harbor; Salisbury Cove, July 6–Aug. 27. Infests meal and stored grain.

CRAMBINAE

ARGYRIA Hübner

A. NIVALIS Drury. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 20–25.

CRAMBUS Fabricius

C. AGITATELLUS Clem. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 24–Aug. 20.

C. ALBOCLAVELLUS Zell. N. E. Harbor; Salisbury Cove, July 22–Aug. 7. The larva feeds on grasses.

C. ALBELLUS Clem. N. E. Harbor; S. W. Harbor, July 18–22. The larva feeds on grasses.

C. BIDENS Zell. S. W. Harbor, July 28.

C. FLORIDUS Zell. N. E. Harbor, July 8–Aug. 20 (Minot).

C. GIRARDELLUS Clem. N. E. Harbor, Aug. 11–Sept. 11 (Minot).

C. HORTUELLUS Hbn. race TOPIARIUS Grt. Common, June 24–July 17.

C. LEACHELLUS Zinck. N. E. Harbor, Aug. 24 (Minot).

C. LUTEOLELLUS Clem. S. W. Harbor, June 24.

C. MUTABILIS Clem. N. E. Harbor, July 16–Aug. 20. The larva feeds on grass.

C. PRAEFESTELLUS Zinck. N. E. Harbor, Aug. 20 (Minot).

C. PERLELLUS Scop. race innotatellus Walk. N. E. Harbor, July 1–Aug. 29 (Minot). The larva feeds on grasses.

C. RARICOLELLUS Zell. N. E. Harbor, Aug. 9–20 (Minot). The larva feeds on grass and sorrel.

C. TRISECTUS Walk. N. E. Harbor, Aug. 23 (Minot). The larva feeds on grasses.

C. UNISTRIATELLA Pack. Salisbury Cove, Aug. 25 (Dahlgren).

C. VULGIVAGELLUS Clem. N. E. Harbor, Sept. 6 (Minot).

TETRALOPHA Zeller

T. ASPERATELLA Clem. N. E. Harbor; Salisbury Cove, July 15–Aug. 25. The larva feeds on oak, maple, elm, etc.

MYELOIS Hübner

M. OBNUPSELLA Hulst. N. E. Harbor, Aug. 20 (Minot).

ACROBASIS Zeller

A. BETULELLA Hulst. Salisbury Cove, July 25. The larva feeds on white birch.

A. INDIGENELLA Zell. 'Apple leaf crumpler.' N. E. Harbor, Aug. 31 (Minot).

A. RUBRIFASCIELLA Pack. N. E. Harbor, Aug. 15 (Minot). The larva feeds on alder.

GLYPTOCERA Ragonot

G. CONSOBRINELLA Zell. Bar Harbor; N. E. Harbor, July 10–16.

MEROPTERA Grote

M. PRAVELLA Grt. Salisbury Cove; N. E. Harbor, July 16–Aug. 10. The larva forms a web between two leaves of willow.

M. UNICOLORELLA Hulst. N. E. Harbor; Salisbury Cove, July 21–Aug. 25.

SALEBRIA Zeller

S. CONTATELLA var. QUINQUEPUNCTELLA Grt. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), June 29–Aug. 7. The larva feeds on locust, forming a web between two leaves.

Laodamia Ragonot

L. fusca Haw. Salisbury Cove, Aug. 25 (Dahlgren). The larva feeds on willow and Vaccinium.

Canarsia Hulst

C. ulmiarrosorella Clem. Salisbury Cove; N. E. Harbor, Aug. 7–Sept. 5. The larva is found on elm.

Homoeosoma Curtis

H. mucidellum Rag. N. E. Harbor, Sept. 5 (Minot). The larva lives in the flowers of Gnaphalium.

Peoria Ragonot

P. approximella Walk. N. E. Harbor, July 26 (Minot).

Pterophoridae

Platyptilia Hübner

P. pallidactyla Haw. Common, July 10–25. The larva bores into stems of yarrow.

Oxyptilus Zeller

O. tenuidactylus Fitch. Salisbury Cove, July 15. The larva feeds on blackberry.

Oidaematophorus Wallengren (*Pterophorus* auct.)

O. homodactylus Walk. N. E. Harbor; Salisbury Cove, July 22–Aug. 25. The larva feeds on Solidago.

Geometridae. Measuring-worms

Nemoria Hübner

N. rubrifrontaria Pack. Bar Harbor, June 18.

Synchlora Guenée

S. aerata Fab. Near Bar Harbor (Burton). The larva feeds on blackberry and raspberry.

Acidalia Treitschke (*Synelys* Hulst)

A. junctaria Walk. S. W. Harbor; N. E. Harbor (Minot), June 21–July 23.

A. enucleata Guen. Salisbury Cove, July 27–Aug. 25 (Dahlgren).

A. enucleata form adornata Prout. Common, July 7–20. The larva feeds on blueberry, Rhexia and Galium.

PTYCHOPODA Curtis

P. INDUCTATA Guen. Salisbury Cove, July 7–Aug. 25 (Dahlgren).

PLEUROPRUCHA Möschler

P. INSULSARIA Guen. N. E. Harbor, July 20–30 (Minot). The larva feeds on oak, Galium, etc.

COSYMBIA Hübner

C. LUMENARIA Hbn. N. E. Harbor; Salisbury Cove; Bar Harbor, Aug. 7–12. The larva feeds on birch, Vaccinium, and Comptonia.

TRECHODESIA Warren

T. ALBOVITTATA Guen. N. E. Harbor (Minot); Long Pond, July 8–16.

LOBOPHORA Curtis

L. NIVIGERATA Walk. N. E. Harbor, Aug. 15 (Minot).

ACASIS Duponchel

A. VIRIDATA Pack. S. W. Harbor, June 24.

CALOCALPE Hübner (*Hydria* Hübner)

C. UNDULATA Linn. S. W. Harbor, June 16–July 30. The larvae are gregarious, webbing together the leaves on the terminal shoots of the wild cherry.

LYGRIS Hübner

L. DIVERSILINEATA Hbn. Bar Harbor; Salisbury Cove, Aug. 10–Sept. 9. The larva feeds on Ampelopsis.

L. DESTINATA Moesch. Salisbury Cove, July 27 (Dahlgren).

L. EXPLANATA Walk. N. E. Harbor; Salisbury Cove, Aug. 15–20.

L. EXPLANATA form CUNIGERATA Walk. N. E. Harbor, July 31–Aug. 16 (Minot).

L. TESTATA Linn. Salisbury Cove, Sept. 1 (Dahlgren). The larva feeds on birch, willow, etc.

DIACTINIA Warren

D. SILACEATA Hbn. Bar Harbor; N. E. Harbor, Aug. 12–21.

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THERA Stephens

T. CONTRACTATA Pack. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), Sept. 23–27.

T. GEORGII Hulst. N. E. Harbor, Aug. 16 (Minot).

DYSSTROMA Hübner

D. TRUNCATA Hufn. N. E. Harbor; S. W. Harbor; Salisbury Cove, July 20–Sept. 8. The larva feeds on strawberry.

HYDRIOMENA Hübner

H. CAERULATA Fab. (*pluviata* Guen.). N. E. Harbor; S. W. Harbor; Echo Lake, July 6–17. The larva feeds on alder.

H. TRANSFIGURATA Swett. Bar Harbor, June 13.

XANTHORHOE Hübner

X. LACUSTRATA Guen. N. E. Harbor; Echo Lake, July 12–Aug. 29. The larva feeds on blackberry, birch, etc.

X. DESIGNATA Hufn. Witch Hole Pond; Salisbury Cove, July 30–Aug. 10. The larva feeds on Cruciferae, wild and cultivated.

X. FERRUGATA Clerk. N. E. Harbor; S. W. Harbor; Bar Harbor, July 15–24. The larva feeds on Polygonum.

X. FERRUGATA form UNIDENTARIA Haw. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 25–Aug. 10.

X. IDUATA Guen. S. W. Harbor, July 10–15.

ORTHONAMA Hübner

O. OBSTRIPATA Fab. (*fluviata* Hbn.). N. E. Harbor; S. W. Harbor, July 15–Aug. 15. Larva feeds on elm, Polygonum, etc.

ENTEPHRIA Hübner

E. AURATA Pack. N. E. Harbor, July 26–Aug. 24 (Minot).

SPARGANIA Guenée

S. MAGNOLIATA Guen. Bar Harbor, Aug. 16.

EUPHYIA Hübner

E. INTERMEDIATA Guen. N. E. Harbor; Salisbury Cove, July 27–Aug. 15. The larva feeds on jewel weed (Impatiens).

E. MULTIFERATA Walk. N. E. Harbor, June 29–Aug. 5 (Minot). The larva feeds on Polygonum and Epilobium.

E. LUCTUATA var. OBDUCTATA Moesch. S. W. Harbor, July 16.

MESOLEUCA Hübner

M. RUFICILLATA Guen. N. E. Harbor, Aug. 9 (Minot). The larva feeds on birch.

EULYPE Hübner (*Rheumaptera* auct.)

E. HASTATA Linn. Echo Lake, June 19.

E. HASTATA var. GOTHICATA Guen. Common; unusually abundant in 1923. June 13–July 20. The larva feeds on birch, willow, blueberry, etc.

VENUSIA Curtis

V. CAMBRICA Curt. N. E. Harbor; S. W. Harbor; Salisbury Cove, June 22–Aug. 24. The larva feeds on mountain ash (Pyrus americana).

HYDRELIA Hübner

H. INORNATA Hulst. Bar Harbor, July 24.

EUBULE Hübner

E. MENDICA Hbn. Common, June 21–July 26. The larva feeds on violets.

EUPITHECIA Curtis

E. ANTICARIA Walk. S. W. Harbor; Salisbury Cove, July 15–18.

E. GEMINATA Pack. N. E. Harbor, Aug. 9–19 (Minot). The larva feeds on the flowers of the yarrow, goldenrod, etc.

E. INTERRUPTOFASCIATA Pack. N. E. Harbor; S. W. Harbor; Salisbury Cove, July 8–Sept. 24. The larva feeds on juniper.

E. RUSSELIATA Swett. N. E. Harbor, June 22 (Minot).

E. STRATTONATA Pack. S. W. Harbor, July 21.

E. TAYLORATA Swett. N. E. Harbor; Salisbury Cove, June 29–Aug. 1.

HORISME Hübner

H. INTESTINATA Guen. N. E. Harbor; Salisbury Cove, July 27–Sept. 5.

ISTURGIA Hübner

I. AMITARIA Guen. (*faxoni* Minot). S. W. Harbor; Echo Lake, June 18–22. The larva feeds on bearberry.

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Eufidonia Packard

E. notataria Walk. S. W. Harbor, June 16. The larva feeds on larch, pine, etc.

Orthofidonia Packard

O. tinctaria Walk. N. E. Harbor, July 9 (Minot).

Bapta Stephen

B. semiclarata Walk. S. W. Harbor, June 25.

B. vestaliata Guen. Jordan Pond; N. E. Harbor, June 10–July 8. The larva feeds on apple, oak, etc.

Physostegania Warren

P. pustularia Guen. N. E. Harbor; Salisbury Cove, July 27–Aug. 11. The larva feeds on maple, cranberry, etc.

Gueneria Packard

G. basiaria Walk. Long Pond, July 16.

Cabera Treitschke

C. variolaria Guen. N. E. Harbor; Salisbury Cove, July 16–22. The larva feeds on willow.

C. erythemaria Guen. N. E. Harbor, July 10 (Minot).

Philobia Duponchel

P. ulsterata Pears. N. E. Harbor, July 12 (Minot).

Macaria Curtis

M. granitata Guen. Bar Harbor; N. E. Harbor; Long Pond, July 2–Aug. 4.

Hesperumia Packard

H. sulphuraria Pack. N. E. Harbor (Minot); Salisbury Cove, July 27–Aug. 23.

Itame Hübner (*Diastictis* Hübner)

I. argillacearia Pack. N. E. Harbor, July 20 (Minot).

I. brunneata Thunb. S. W. Harbor, June 21–July 13.

I. anataria Swett. N. E. Harbor (Minot); Salisbury Cove, July 13–Aug. 26.

Homochlodes Hulst

H. fritallaria Guen. S. W. Harbor, July 15.

CARIPETA Walker

C. ANGUSTIORATA Walk. Bar Harbor, Aug. 12. The larva feeds on white pine.

C. DIVISATA Walk. Bar Harbor; N. E. Harbor; Salisbury Cove, July 20–Aug. 23. The larva feeds on hemlock.

C. PINIATA Pack. Salisbury Cove, July 18.

NEPYTIA Hulst

N. CANOSARIA Walk. (*pulcheria* Minot). N. E. Harbor; Echo Lake, Aug. 19–Sept. 11. The larva feeds on pine, spruce, and larch.

CLEORA Curtis

C. INDICATARIA Walk. Common, June 21–July 20.

C. LARVARIA Guen. N. E. Harbor, June 26–July 6 (Minot). The larva feeds on willow, wild cherry, etc.

ATHALOPTERA Hulst

A. ANTICARIA Walk. S. W. Harbor, June 20.

ECTROPIS Hübner

E. CREPUSCULARIA D. & S. Jordan Pond, June 10. The larva feeds on apple, pear, elm, maple, etc.

AMPHIDASIS Treitschke

A. COGNATARIA Guen. Bar Harbor; Salisbury Cove (Dahlgren), June 17–July 27. The larva feeds on various orchard and forest trees.

CINGILIA Walker

C. CATENARIA Drury. Ironbound Isl. (Blaney). The larva feeds on Vaccinium, Rubus, Myrica, Carex, etc.

ANAGOGA Hübner

H. PULVERARIA Linn. Jordan Pond; Long Pond; June 10–July 16. The larva feeds on maple, willow, birch, etc.

SICYA Guenée

S. MACULARIA Harr. Salisbury Cove, Aug. (Dahlgren).

S. MACULARIA var. SOLFATARIA Guen. N. E. Harbor, July 13 (Minot).

ELLOPIA Treitschke

E. ENDROPIARIA Grt. & Rob. N. E. Harbor, June 20 (Minot). The larva feeds on oak. etc.

E. FISCELLARIA Guen. N. E. Harbor; S. W. Harbor; Bar Harbor, Sept. 6–13.

E. FISCELLARIA form JOHNSONI Swett. N. E. Harbor; S. W. Harbor; Bar Harbor, Sept. 8–29.

E. FISCELLARIA form PECCATARIA Swett. Bar Harbor, Sept. 13.

CAMPAEA Lamarck

C. PERLATA Guen. Bar Harbor; Long Pond; N. E. Harbor, June 11–Aug. 24.

ENNOMOS Treitschke

E. MAGNARIUS Guen. Salisbury Cove (Dahlgren); N. E. Harbor (Minot), Sept. 1–24. The larva feeds on birch, maple, elm, etc.

XANTHOTYPE Warren

X. CROCATARIA Fab. var. CAELARIA Hulst. Echo Lake, July 12. The larva feeds on strawberry, currant, and gooseberry.

PLAGODIS Hübner

P. SERINARIA H.-Sch. Jordan Pond, June 10.

HYPERETIS Guenée

H. AMICARIA H.-Sch. Long Pond; N. E. Harbor, July 16–26. The larva feeds on alder, beech, birch, oak, etc.

NEMATOCAMPA Guenée

N. LIMBATA Haw. Salisbury Cove, Aug. 25 (Dahlgren). The larva feeds on apple, maple, etc.

GONODONTIS Hübner

G. HYPOCHRARIA H.-Sch. Bar Harbor, June 8. The larva feeds on apple, etc.

G. DUARIA Guen. N. E. Harbor, June 26 (Minot). The larva feeds on oak.

EUCHLAENA Hübner

E. OBTUSARIA Hbn. N. E. Harbor, July 18–22 (Minot). The larva feeds on jewel weed (Impatiens).

E. EFFECTA Walk. N. E. Harbor, July 31 (Minot). The larva feeds on rose.

E. JOHNSONARIA Fitch. Salisbury Cove, July 16. The larva feeds on oak, cherry, etc.

E. SERRATA Drury. Salisbury Cove, July 24 (Dahlgren).

E. VINULENTARIA Grt. & Rob. S. W. Harbor, June 25.

METANEMA Guenée

M. INATOMARIA Guen. Bar Harbor, July 20. The larva feeds on poplar.

M. DETERMINATA Walk. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 25–Aug. 24.

PRIOCYCLA Guenée

P. ARMATARIA H.-Sch. N. E. Harbor, July 4 (Minot). The larva feeds on currant, birch, maple, apple, etc.

PERO Herrich-Schaeffer

P. HONESTARIUS Walk. S. W. Harbor, July 15. The larva feeds on maple.

P. MORRISONARIUS Hy. Edw. S. W. Harbor; N. E. Harbor, July 15–Aug. 20.

APICIA Guenée

A. CONFUSARIA Hbn. Bar Harbor (Burton); Salisbury Cove, Aug. 7. The larva feeds on clover.

A. CONFUSARIA form METROCAMPARIA Guen. Salisbury Cove, July 16.

SABULODES Guenée

S. LORATA Grt. N. E. Harbor, July 30 (Minot). The larva feeds on sweet fern, Comptonia.

S. TRANSVERSATA Drury. N. E. Harbor; Bar Harbor; Salisbury Cove, Aug. 17–Sept. 13. The larva feeds on maple, currant, apple, etc.

S. TRANSVERSATA Drury form INCURVATA Guen. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), Aug. 15–Sept. 1.

NOTODONTIDAE

PHEOSIA Hübner

P. RIMOSA Pack. Bar Harbor; N. E. Harbor (Minot), July 10–Aug. 23. The larva feeds on poplar.

Lophodonta Packard

L. angulosa Abb. & Sm. Salisbury Cove, July 24–Aug. 15 (Dahlgren). The larva feeds on oak.

L. ferruginea Pack. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 10–16. The larva feeds on birch.

Symmerista Hübner

S. albifrons Abb. & Sm. N. E. Harbor, July 18 (Minot). The larva feeds on oak, maple, etc.

Dasylophia Packard

D. anguina Abb. & Sm. Salisbury Cove, July (Dahlgren). The larva feeds on locust.

Heterocampa Doubleday

H. guttivitta Walk. N. E. Harbor, June 26 (Minot). The larva is popularly known as the 'saddle prominent' and is often injurious to maples and poplars.

Schizura Doubleday

S. unicornis Abb. & Sm. N. E. Harbor, Aug. 11 (Minot). The larva feeds on orchard and shade trees.

Cerura Schrank

C. borealis Bdv. Bar Harbor, Sept. The larva feeds on willow.

Gluphisia Boisduval

G. septentrionis Walk. N. E. Harbor, Aug. 19 (Minot). The larva feeds on willow, poplar, and birch.

Lymantriidae (*Liparidae*)

Notolophus Germar

N. antiqua Linn. Old tussock-moth. Bar Harbor. The larva feeds on most of the orchard and forest trees.

Hemerocampa Dyar

H. leucostigma Abb. & Sm. White-marked tussock-moth. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), Aug. 7–Sept. 24. The larva feeds on various fruit and shade trees.

PORTHETRIA Hübner

P. DISPAR Linn. Gypsy moth. Reported in 1919 from Tremont, Mt. Desert, and Eden, but not seen by the writer.

EUPROCTIS Hübner

E. CHRYSORRHOEA Linn. Brown-tail moth. Abundant during 1911–1914, but has now practically disappeared. One specimen was taken at Salisbury Cove, July 16, 1923.

STILPNOTIA Westwood

S. SALICIS Linn. Satin moth. Salisbury Cove, Aug. 6, 1926 (Dahlgren). First reported in the vicinity of Boston in 1920, it has gradually spread northeastward. This is the most northerly record at the present time. The larva feeds on willow and poplar.

NOCTUIDAE

RHODOPHORA Guenée

R. FLORIDA Guen. Primrose moth. Salisbury Cove, July 17; Ironbound Isl. (Blaney). The larva feeds on the buds and seed capsules of the evening primrose.

POROSAGROTIS Smith

P. VETUSTA Walk. Salisbury Cove, Sept. 1 (Dahlgren).

EUXOA Hübner

E. PERPOLITA Morr. S. W. Harbor, Sept. 8.

E. MESSORIA Harr. Salisbury Cove; N. E. Harbor, Aug. 15–Sept. 6. The larva is one of the most troublesome of the early cutworms.

E. MOLLIS Walk. N. E. Harbor, Aug. 25 (Minot).

E. REDIMICULA Morr. Salisbury Cove, Aug. (Dahlgren).

E. OCHROGASTER Guen. Salisbury Cove, Aug. (Dahlgren).

FELTIA Walker

F. VENERABILIS Walk. Bar Harbor; Salisbury Cove; N. E. Harbor, Sept. 1–24.

F. DUCENS Walk. (*subgothica* auct.). N. E. Harbor; Salisbury Cove, Aug. 15–30.

F. HERILIS Grt. N. E. Harbor; Salisbury Cove, Aug. 18–30.

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AGROTIS Ochsenheimer

A. GENICULATA Grt. & Rob. Salisbury Cove, Aug. (Dahlgren).

A. YPSILON Rott. Bar Harbor, July 22. The larva is one of the troublesome cutworms.

A. C-NIGRUM Linn. N. E. Harbor; Salisbury Cove, Aug. 18–30. The larva is one of the cutworms.

A. BICARNEA Guen. N. E. Harbor; Salisbury Cove, Aug. 15–Sept. 2. The larva is a troublesome cutworm.

A. NORMANIANA Grt. N. E. Harbor; Salisbury Cove, July 31–Aug. 21.

A. BAJA Fab. (*smithi* Snell.). N. E. Harbor; Salisbury Cove, Aug. 15–20.

A. PLECTA Linn. S. W. Harbor, July 31. The larva feeds on lettuce, celery, etc.

A. PHYLLOPHORA Grt. N. E. Harbor, July 27 (Minot).

A. UNIMACULA Morr. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 27–Aug. 20.

A. UNICOLOR Walk. (*clandestina* Harr.). Bar Harbor; N. E. Harbor; Salisbury Cove, July 8–Sept. 6. The larva is one of the troublesome cutworms.

LYCOPHOTIA Hübner

L. ASTRICTA Morr. N. E. Harbor; Salisbury Cove, July 31–Aug. 20.

L. OCCULTA Linn. N. E. Harbor, July 19–27 (Minot).

L. MARGARITOSA Haw. form SAUCIA Hbn. N. E. Harbor; Salisbury Cove, Aug. 15–30. The larva is one of the injurious cutworms.

APLECTOIDES Butler

A. PRESSUS Grt. S. W. Harbor, July 10.

APHARETRA Grote

A. DENTATA Grt. Salisbury Cove, Aug. 7.

MATUTA Grote

M. ELIMATA Guen. N. E. Harbor (Minot); Bar Harbor, July 17–Sept. 13.

M. PRASINA Fab. N. E. Harbor, July 19 (Minot).

Rhynchagrotis Smith

R. brunneicollis Grt. Salisbury Cove, Aug. 25 (Dahlgren).
R. anchocelioides Guen. S. W. Harbor, Sept. 8.
R. gilvipennis Grt. S. W. Harbor; N. E. Harbor, July 30–31.

Eueretagrotis Smith

E. attenta Grt. N. E. Harbor; Salisbury Cove, July 22–Aug. 7.
E. perattenta Grt. N. E. Harbor, July 22 (Minot).

Scotogramma Smith

S. trifolii Rott. Salisbury Cove, Aug. 20 (Dahlgren).

Polia Ochsenheimer (*Mamestra* Ochs.)

P. imbrifera Guen. N. E. Harbor, Aug. 4–15 (Minot).
P. purpurissata Grt. N. E. Harbor; Salisbury Cove, July 15–Aug. 20.
P. meditata Grt. Salisbury Cove, Aug. 15 (Dahlgren).
P. cristifera Walk. N. E. Harbor, July 22 (Minot).
P. nimbosa Guen. Ironbound Isl. (Blaney).
P. adjuncta Bdv. Ironbound Isl. (Blaney).
P. legitima Grt. Salisbury Cove; N. E. Harbor; S. W. Harbor, July 18–Aug. 18. The larva feeds on beans, cabbage, and other garden plants.
P. lilacina Harv. S. W. Harbor, July 15.
P. renigera Steph. N. E. Harbor; Salisbury Cove, Aug. 15–29.
P. lorea Guen. S. W. Harbor; Salisbury Cove, July 10–Aug. 15. The larva feeds on strawberry, geranium, etc.
P. olivacea Morr. N. E. Harbor, Aug. 15 (Minot).

Chabuta Walker

C. signata Walk. N. E. Harbor; Salisbury Cove, July 31–Aug. 17.

Eriopyga Guenée

E. crenulata Butl. N. E. Harbor, Aug. 5 (Minot).
E. cynica Guen. Salisbury Cove, Aug. 20 (Dahlgren).
E. vecors Guen. N. E. Harbor, Aug. 5 (Minot).

Oncocnemis Lederer

O. atrifasciata Morr. S. W. Harbor, Sept. 6; Ironbound Isl. (Blaney).

LITHOMOIA Hübner

L. SOLIDAGINIS Hbn. (*germana* Morr.). Salisbury Cove (Dahlgren); N. E. Harbor (Minot), Sept. 1–29.

XYLOTYPE Hampson

X. CAPAX Grt. & Rob. Salisbury Cove (Dahlgren); N. E. Harbor (Minot), Sept. 1–24.

EUROTYPE Hampson

E. CONFRAGOSA Morr. (*medialis* Grt.). Salisbury Cove; S. W. Harbor, Aug. 15–Sept. 6.

HARPAGLAEA Hampson

H. PASTILLACANS Morr. N. E. Harbor, Sept. 24–27 (Minot).

EPIGLAEA Grote

E. APICATA Grt. Salisbury Cove, Aug. (Dahlgren).

CONISTRA Hübner

C. INCULTA Grt. N. E. Harbor, Sept. 24 (Minot).

PARASTICHTIS Hübner

P. RALLA Grt. & Rob. N. E. Harbor, Aug. 11–Sept. 27 (Minot).

NEPHELODES Guenée

N. EMMEDONIA Cram. (*minians* Guen.). Common, July 13–Sept. 6. The larva feeds on Solidago, etc.

N. EMMEDONIA form VIOLANS Guen. Salisbury Cove, Sept. 1 (Dahlgren).

SIDERIDIS Hübner

S. RUBEFACTA Morr. Narrows, June 9.

CIRPHIS Walker

C. PSEUDARGYRIA Guen. N. E. Harbor, July 22 (Minot).

C. MULTILINEA Walk. N. E. Harbor, July 22 (Minot).

C. COMMOIDES Guen. Salisbury Cove, July 17–Aug. 25.

C. INSUETA Guen. S. W. Harbor, July 13.

NELEUCANIA Smith

N. ALBILINEA Hbn. N. E. Harbor, Aug. 10 (Minot). The larva feeds on grasses and grain.

LEUCANIA Ochsenheimer

L. LUTEOPALLENS Sm. S. W. Harbor; Salisbury Cove, July 13–Aug. 25. The larva feeds on grasses.

CUCULLIA Schrank

C. INTERMEDIA Spey. Salisbury Cove, Aug. (Dahlgren); Iron-bound Isl. (Blaney).

C. CONVEXIPENNIS Grt. & Rob. N. E. Harbor, July 31–Aug. 25 (Minot).

ATETHMIA Hübner

A. PAMPINA Guen. Echo Lake; Bar Harbor; N. E. Harbor, Sept. 7–24.

XANTHIA Ochsenheimer

X. LUTEA Strom. (*flavago* Fab.). N. E. Harbor, Sept. 27 (Minot).

AMPHIPYRA Ochsenheimer

A. PYRAMIDOIDES Guen. Cadillac Cliff, Sept. 13. The larva feeds on wild cherry, apple, poplar, etc.

A. TRAGOPOGINIS Linn. Salisbury Cove (Dahlgren); N. E. Harbor (Minot), Aug. 15–21.

SEPTIS Hübner

S. NIGRIOR Smith. Salisbury Cove, Aug. 15 (Dahlgren).

S. LIGNICOLOR Guen. S. W. Harbor, July 20.

S. VULTUOSA. S. W. Harbor (Mrs. Palmer).

S. ARCTICA Bdv. Common, July 8–Sept. 10. The larva is one of the destructive cutworms.

TRACHEA Ochsenheimer

T. ILLOCATA Walk. N. E. Harbor, Sept. 27 (Minot).

T. MACTATA Guen. N. E. Harbor, Sept. 6 (Minot).

T. MODICA Guen. Salisbury Cove; N. E. Harbor (Minot), Aug. 7–30.

EUPLEXIA Stephens

E. LUCIPARA Linn. N. E. Harbor, June 26 (Minot). The larva feeds on birch, Viburnum, etc.

PERIGEA Guenée

P. VECORS Guen. (*remissa* Walk.). S. W. Harbor; N. E. Harbor, July 13–Aug. 23.

OLIGIA Hübner

O. BRIDGHAMI Grt. & Rob. N. E. Harbor, Aug. 17 (Minot).

AGROPERINA Hampson

A. DUBITANS Walk. S. W. Harbor; Salisbury Cove; N. E. Harbor, July 10–Sept. 4.

SIDEMINA Staudinger

S. DEVASTATOR Brace. Common, July 20–Aug. 15. The larva is one of the destructive cutworms.

LUPERINA Boisduval

L. STIPATA Morr. N. E. Harbor, July 31 (Minot).

CHUTAPHA Moore

C. PERICULOSA Guen. N. E. Harbor, Aug. 13–19 (Minot).

C. PERICULOSA form V-BRUNNEUM Grt. N. E. Harbor; Salisbury Cove, Aug. 1–19.

CALLOPISTRIA Hübner

C. MONETIFERA Guen. S. W. Harbor; Salisbury Cove, June 21–Aug. 9.

CHYTONIX Grote

C. PALLIATRICULA Guen. form IASPIS Guen. N. E. Harbor, July 12 (Minot).

LEUCONYCTA Hampson

L. DIPTEROIDES Guen. N. E. Harbor, Aug. 18 (Minot).

AGRIOPODES Hampson

A. FALLAX H.-Sch. S. W. Harbor; N. E. Harbor (Minot), July 15–30. The larva feeds on poplar and Viburnum.

A. LEPIDULA Grt. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 18–24.

ACRONYCTA Ochsenheimer

A. INNOTATA Guen. N. E. Harbor; S. W. Harbor, July 15–20.

A. DACTYLINA Grt. Bar Harbor; N. E. Harbor; S. W. Harbor, July 16–28. The larva feeds on alder, birch and willow.

A. POPULI Riley. Ironbound Isl. (Blaney).

DELTA Saalm

D. RAMOSULA Guen. N. E. Harbor, Aug. 15 (Minot).

CARADRINA Ochsenheimer

C. MULTIFERA Walk. N. E. Harbor, Aug. 18–Sept. 5 (Minot).

BALSA Walker

B. MALANA Fitch. Bar Harbor, June 22. The larva feeds on apple.

MONODES Guenée

M. FESTIVOIDES Guen. N. E. Harbor, June 29 (Minot).

APAMEA Ochsenheimer

A. VELATA Walk. N. E. Harbor, July 22 (Minot).

A. NICTITANS Linn. Common, Aug. 15–Sept. 15.

A. NICTITANS var. AMERICANA Speyer. Common, Aug. 26–Sept. 27. The larva bores into various grasses.

GORTYNA Ochsenheimer

G. IMMANIS Guen. Salisbury Cove, Aug. 15 (Dahlgren).

PAPAIPEMA Smith

P. PTERISII Bird. Salisbury Cove, Sept. 1 (Dahlgren).

IPIMORPHA Hübner

I. PLEONECTUSA Grt. Salisbury Cove, Aug. 15 (Dahlgren).

COSMIA Ochsenheimer

C. ORINA Guen. Salisbury Cove, Aug. 18 (Dahlgren).

CALAMIA Hübner

C. INQUINATA Guen. Salisbury Cove, Aug. 7.

LITHACODIA Hübner

L. ALBIDULA Guen. S. W. Harbor; Salisbury Cove, June 21–Aug. 7.

L. CONCINNIMACULA Guen. N. E. Harbor, Sept. 5 (Minot).

L. BELLICULA Hbn. Salisbury Cove, July 15.

L. CARNEOLA Guen. Bar Harbor; Salisbury Cove, June 11–Aug. 7.

L. APICOSA Haw. N. E. Harbor, July 24 (Minot).

L. MUSCOSULA Guen. Salisbury Cove; N. E. Harbor, Aug. 7–15.

MARATHYSSA Walker

M. INFICITA Walk. N. E. Harbor, July 13 (Minot).

CATOCALA Schrank

C. ANTINYMPHA Hbn. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), Sept. 1–15.

C. CEROGAMA Guen. N. E. Harbor, Aug. 15 (Minot).

C. RELICTA Walk. Ironbound Isl. (Blaney). The larva feeds on birch and poplar.

C. UNIJUGA Walk. S. W. Harbor, Sept. 5 (Alexander).

C. CONCUMBENS Walk. Salisbury Cove, Sept. 10 (Dahlgren). The larva feeds on willow and poplar.

C. GRACILIS Edw. N. E. Harbor, July 11–Aug. 15 (Minot).

C. GRACILIS form SORDIDA Grt. Bar Harbor, July 22.

C. ULTRONIA Hbn. N. E. Harbor, Sept. 5 (Minot). The larva feeds on apple, plum, wild cherry, etc.

C. PRAECLARA Grt. & Rob. N. E. Harbor, Sept. 6 (Minot).

EUPARTHENOS Grote

E. NUBILIS Hbn. Bar Harbor; Salisbury Cove, June 11–July 25. The larva feeds on locust.

PARALLELIA Hübner

P. BISTRIARIS Hbn. N. E. Harbor; Green Mt., July 17–25. The larva feeds on maple.

CAENURGIA Walker (*Drasteria* auct.)

C. ERECHTEA Cram. Common, July–Aug. The larva feeds on grasses, clover, etc.

C. CRASSIUSCULA Haw. Common, July–Aug. The larva feeds on grasses.

PANTHEA Hübner

P. FURCILLA Pack. Salisbury Cove, July 10 (Sanford). The larva feeds on larch and pine.

AUTOGRAPHA Hübner

A. FALCIFERA Kby. form SIMPLEX Guen. Salisbury Cove; Narrows; Bar Harbor, Sept. 1–13. The larva feeds on a variety of cruciferous plants.

A. EPIGAEA Grt. Ironbound Isl. (Blaney).
A. SELECTA Walk. N. E. Harbor, Aug. 29 (Minot).
A. OCTOSCRIPTA Grt. S. W. Harbor, July 29.
A. RECTANGULA Kby. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 30–Aug. 10.
A. U-AUREUM Guen. (*vaccinii* H. Edw.). N. E. Harbor (Minot); Salisbury Cove, July 18, 19.
A. PRECATIONIS Guen. N. E. Harbor, Aug. 13–24 (Minot). A general feeder on weeds.
A. BIMACULATA Steph. N. E. Harbor, July 31–Aug. 11 (Minot).
A. MAPPA Grt. & Rob. N. E. Harbor, Aug. 24 (Minot).
A. PUTNAMI Grt. Narrows, June 9.
A. CONTEXTA Grt. S. W. Harbor, July 10–15.
A. AMPLA Walk. Echo Lake; N. E. Harbor (Minot), July 17–Aug. 11.

PLUSIA Ochsenheimer

P. AEREOIDES Grt. N. E. Harbor, July 22–29 (Minot).
P. BALLUCA Geyer. N. E. Harbor, July 26–31 (Minot).

EOSPHOROPTERYX Dyar

E. THYATYROIDES Guen. N. E. Harbor, Aug. 14 (Minot).

ABROSTOLA Ochsenheimer

A. FORMOSA Grt. N. E. Harbor, July 31 (Minot).

RAPHIA Hübner

R. FRATER Grt. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 16–27. The curious larva feeds on poplar and willow.

SCOLIOPTERYX Germar

S. LIBATRIX Linn. Bar Harbor, June 22. The larva feeds on willow and poplar.

RIVULA Guenée

R. PROPINQUALIS Guen. N. E. Harbor; Bar Harbor; Salisbury Cove, July 17–Aug. 7.

PANGRAPTA Hübner

P. DECORALIS Hbn. Common, June 18–Aug. 7.

METALESTRA Hübner

M. QUADRISIGNATA Walk. (*contracta* Walk.). N. E. Harbor, July 10–Aug. 24 (Minot).

EPIZEUXIS Hübner

E. AMERICALIS Guen. N. E. Harbor; Salisbury Cove, July 3–Aug. 25. The larva feeds on clover.

E. AEMULA Hbn. N. E. Harbor; Salisbury Cove, July 30–Aug. 7. The larva is said to feed on spruce.

E. LUBRICALIS Geyer. N. E. Harbor; Salisbury Cove, July 17–Aug. 1. The larva feeds on grasses.

ZANCLOGNATHA Lederer

Z. OBSCURIPENNIS Grt. N. E. Harbor; Salisbury Cove, July 1–Aug. 7.

HORMISA Walker

H. ABSORPTALIS Walk. N. E. Harbor; Salisbury Cove, July 15–23.

PHILOMETRA Grote

P. METONALIS Walk. Echo Lake; N. E. Harbor; Salisbury Cove, July 12–Aug. 7.

CHYTOLITA Grote

C. PETREALIS Grt. N. E. Harbor, July 4 (Minot).

RENIA Guenée

R. FLAVIPUNCTALIS Geyer. Salisbury Cove, Aug. 7.

BLEPTINA Grote

B. CARADRINALIS Guen. Salisbury Cove, July 18.

PHALAENOPHANA Grote

P. PYRAMUSALIS Walk. N. E. Harbor, July 16 (Minot).

PALTHIS Hübner

P. ANGULALIS Hbn. Bar Harbor; Echo Lake, June 19–July 12.

BOMOLOCHA Hübner

B. BALTIMORALIS Guen. N. E. Harbor, Aug. 15–18 (Minot). The larva feeds on maple.

B. DECEPTALIS Walk. S. W. Harbor; Salisbury Cove, July 28–Aug. 25.

B. TOREUTA Grt. N. E. Harbor, June 26 (Minot).

LOMANALTES Grote

L. EDUCTALIS Walk. N. E. Harbor, July 30 (Minot).

PLATHYPENA Grote

P. SCABRA Fab. Bar Harbor, July 26. The larva feeds on clover, beans, etc.

HYPENA Schrank

H. HUMILIS Harr. Salisbury Cove, Aug. 15 (Dahlgren).

ARCTIIDAE. Tiger moths

HALISIDOTA Hübner

H. MACULATA Harr. Ironbound Isl. (Blaney). Larva at Bar Harbor, Sept. 13. The larva feeds on willow, poplar, alder, and oak.

H. TESSELLARIS Abb. & Sm. Salisbury Cove; S. W. Harbor, July 18–20. The larva feeds on various shade and fruit trees.

EUBAPHE Hübner

E. AURANTIACA var. RUBICUNDARIA Hbn. Common, July 16–Aug. 24. The larva feeds on a variety of plants.

E. AURANTIACA var. QUINARIA Grote. Salisbury Cove, Aug. 7.

E. IMMACULATA Reak. N. E. Harbor (Minot); Salisbury Cove (Dahlgren), July 24–Aug. 23.

HYPHORAIA Hübner

H. PARTHENOS Harr. St. Lawrence tiger moth. S. W. Harbor, June 22, from pupa; N. E. Harbor, July 7 (A. R. Allen); Bar Harbor, July 22; Salisbury Cove, July 18–22 (Dahlgren).

DIACRISIA Hübner

D. VIRGINICA Fab. White Tiger moth. Bar Harbor; N. E. Harbor; S. W. Harbor, June 16–Aug. 15. The caterpillar is known as the 'woolly bear' and feeds on various plants including peas, beans, grasses, garden flowers, etc.

ISIA Walker

I. ISABELLA Abb. & Sm. S. W. Harbor; Salisbury Cove, June 20–July 10. The larva is called the 'banded wool bear' and feeds on clover, plantain, dandelion, etc.

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Hyphantria Harris

H. textor Harr. Northern fall-webworm. Bar Harbor; Salisbury Cove; N. E. Harbor, June 19–July 18. The larvae form webs on various fruit and shade trees in late August and early September.

Estigmene Hübner

E. acraea Drury. Bar Harbor; S. W. Harbor; Salisbury Cove, June 9–25. The larva is a general feeder.

Apantesis Walker

A. virgo Linn. Virgin tiger moth. Common, July 27–Aug. 16. The larva feeds on plantain, lettuce, etc.

A. parthenice Kby. N. E. Harbor, Aug. 29 (Minot).

A. virguncula Guen. Manset; S. W. Harbor, June 21.

Utetheisa Hübner

U. bella Linn. Witch Hole Pond, Sept. 11; Ironbound Isl. (Blaney). The larva feeds on cherry, elm, etc.

Lithosiidae

Lixis Wallengren

L. bicolor Grt. N. E. Harbor, Aug. 21 (Minot).

Clemensia Packard

C. albata Pack. Bar Harbor, Aug. 16.

Euchromiidae (*Syntomidae*). Day-moths

Lycomorpha Harris

L. pholus Drury. Bar Harbor; N. E. Harbor; Acadia Mt., July 24–Sept. 3. The moth frequents goldenrod; the larva feeds on lichens.

Ctenucha Kirby

C. virginica Charp. Common, July 13–Aug. 13. The larva feeds on grasses.

Thyatiridae

Pseudothyatira Grote

P. cymatophorides form expultrix Grt. N. E. Harbor, July 19 (Minot). The larva feeds on birch, maple, and oak.

Drepanidae

Oreta Walker

O. irrorata Pack. N. E. Harbor, July 10 (Minot); Bar Harbor (Burton).

O. rosea Walk. N. E. Harbor, July 10–Sept. 5 (Minot). The larva feeds on Viburnum.

Drepana Schrank

D. arcuata Walk. S. W. Harbor, July 16. The larva is solitary and forms a web. It feeds on birch and alder.

D. arcuata var. genicula Grt. N. E. Harbor, July 19 (Minot).

Falcaria Haworth

F. bilineata Pack. N. E. Harbor, July 19 (Minot); Salisbury Cove, Aug. (Dahlgren). The larva feeds on birch.

Citheroniidae. Royal moths

Anisota Hübner

A. virginiensis Drury. Jordan Pond; Bar Harbor; S. W. Harbor, June 10–25. The larva feeds on oak and is known as the rosy-striped oak-worm.

A. rubicunda Fab. N. E. Harbor, June 26 (Minot). The larva is known as the green-striped maple-worm.

Saturniidae. Giant silk-worms

Tropaea Hübner

T. luna Linn. Luna moth. Bar Harbor; N. E. Harbor; Salisbury Cove; Echo Lake, June 26–July 27. The larva feeds on birch, etc.

Telea Hübner

T. polyphemus Cram. American silk-worm. Bar Harbor; S. W. Harbor, June 16–July 10. The larva feeds on oak, elm, linden, etc.

Lasiocampidae

Malacosoma Hübner

M. americana Fab. American tent caterpillar. N. E. Harbor; Salisbury Cove; S. W. Harbor, July 18–25. The larvae form large tent-like webs on the apple, cherry, and other trees.

M. DISSTRIA Hbn. Forest tent caterpillar. Salisbury Cove, Aug. 7 (Dahlgren).

M. DISSTRIA var. SYLVATICA Harr. Salisbury Cove, Aug. 7 (Dahlgren). The larvae feed on birch, cherry, poplar, willow, etc.

SPHINGIDAE. Hawk moths

CERATOMIA Harris

C. UNDULOSA Walk. 'Waved sphinx.' Bar Harbor, July 29. The larva feeds on ash, lilac, etc.

SPHINX Linnaeus

S. CHERSIS Hbn. 'Chersis sphinx.' Bar Harbor, July 10 (Pierson); Salisbury Cove (Dahlgren). The larva feeds on ash and lilac.

S. KALMIAE Abb. & Sm. 'Laurel sphinx.' Common, July 30–Aug. 14. The larva feeds on laurel, ash and lilac.

S. GORDIUS Cram. 'Gordian sphinx.' Bar Harbor, July. The larva feeds on huckleberry, birch, etc.

S. DRUPIFERARUM Abb. & Sm. Salisbury Cove, Aug. (Dahlgren).

LAPARA Walker

L. BOMBYCOIDES Walk. 'Bombyx sphinx.' Salisbury Cove, Aug. 6 (Dahlgren).

SMERINTHUS Latreille

S. JAMAICENSIS Drury, form GEMINATUS Say. 'Twin-spot sphinx.' Salisbury Cove, Aug. (Dahlgren). The larva feeds on birch, cherry, etc.

PAEONIAS Hübner

P. EXCAECATA Abb. & Sm. 'Blinded sphinx.' N. E. Harbor (Minot); Salisbury Cove, July 17–25. The larva feeds on various plants of the order Rosaceae, also on willow, etc.

P. MYOPS Abb. & Sm. 'Small-eyed sphinx.' Salisbury Cove, Aug. (Dahlgren). The larvae also feed on various Rosaceae.

Pachysphinx Rothschild and Jordan

P. modesta Harr. 'Big poplar sphinx.' N. E. Harbor, July 3 (A. R. Allen); Bar Harbor; Salisbury Cove (Mrs. Neal). The larva feeds on poplar and willow.

Aellopos Hübner

A. titans Cram. White-banded day-sphinx. Salisbury Cove, July 23, 1925 (Dahlgren). The most northern record for this southern species.

Haemorrhagia Grote. (*Hemaris* auct.)

H. thysbe Fab. form cimbiciformis Steph. 'Humming-bird clear-wing.' Common, June 8–July 28. The larva feeds on Viburnum, Lonicera, etc.

H. gracilis Grt. & Rob. 'Graceful clear-wing.' Great Clearing; Witch Hole Pond, June 10 and 13, 1921.

H. diffinis Bdv. 'Snowberry clear-wing.' Common, June 12–July 17. The larva feeds on snowberry (Symphoricarpus), Lonicera, etc.

Celerio Oken. (*Deilephila* auct.)

C. gallii var. intermedia Kby. Galium sphinx. N. E. Harbor, Aug. 15 (Minot); Salisbury Cove (Mrs. Neal). The larva feeds on fire weed (Epilobium).

C. lineata Fab. Striped morning sphinx. Ironbound Isl. (Blaney). The larva feeds on a variety of plants, evening primrose, currant, etc.

Hesperiidae. Skippers

Thorybes Scudder

T. pylades Scud. Bar Harbor (Burton); Salisbury Cove, July 24. The larva feeds on clover, etc.

Thanaos Boisduval

T. brizo Bdv. & LeC. Bar Harbor, July 24. The larva feeds on oak.

T. icelus Lint. Bar Harbor; S. W. Harbor; Echo Lake, June 12–July 24. The larva feeds on poplar.

Carterocephalus Lederer

C. palaemon Pall. Bar Harbor, June 7–22.

Pamphila Fabricius

P. sassacus Harr. Echo Lake, July 12. The larva feeds on grasses.

Polites Scudder

P. cernes Bdv. & LeC. Echo Lake; Salisbury Cove, July 12–15.

P. mystic Scud. Ironbound Isl. (Blaney).

P. peckius Kby. Salisbury Cove; Bar Harbor; S. W. Harbor, June 20–Aug. 10. The larva feeds on grasses.

Catia Godman and Salvin

C. otho Abb. & Sm. Echo Lake, July 12.

Poanes Scudder

P. zabulon Bdv. & LeC. Echo Lake; N. E. Harbor; S. W. Harbor, June 17–July 10. The larva feeds on grasses.

Euphyes Scudder

E. bimacula Grt. & Rob. Salisbury Cove, July 15.

Amblycirtes Scudder

A. vialis Edw. Echo Lake; Bar Harbor, June 15–July 12. The larva feeds on grasses.

Papilionidae. Butterflies

Papilio Linnaeus. Swallow-tails

P. glaucus var. turnus Linn. Tiger or yellow swallow-tail. Common in June and early July. The larva feeds on a variety of plants, including cherry, apple, quince, ash, birch, alder, poplar, etc.

P. polyxenes Fab. (*P. asterias* auct.). Black swallow-tail. Common from June to August. The larva feeds on the wild and cultivated Umbelliferae, including carrot, parsnip, parsley, caraway, celery, etc.

Pieridae

Pieris Schrank (*Pontia* Fabricius)

P. rapae Linn. Imported cabbage-butterfly. Common. Introduced at Quebec about 1860, it reached Mt. Desert about 1868. The larva feeds chiefly on cabbage, but will also feed

on most of the Cruciferae, including turnip, mustard, horseradish, water-cress, etc. It is usually kept in check by parasites.[8]

P. NAPI var. OLERACEA Harr. White mustard butterfly. Rare. Near Newport Mt. (Reich and Burton). Formerly common throughout northern New England, but since the introduction of Pieris rapae, it has become comparatively scarce, probably owing to parasites. The larva feeds on mustard, cabbage, turnip, and other Cruciferae.

EURYMUS Swainson (*Colias* auct.)

E. PHOLADICE Godart. Common sulphur-butterfly. Common, July–Sept. The larva feeds on a number of the Leguminosae, but prefers the clovers.

E. INTERIOR Scud. Pink-edged sulphur-butterfly. Sometimes quite common throughout the island in July.

E. EURYTHEME Bdv. Orange sulphur-butterfly. A western species that is occasionally found in New England. Mr. Scudder, on the distribution of this species in his "Butterflies of New England," says: "Mt. Desert, Me., a single specimen seen (Thaxter)." Again, on page 1132, he says: "Mr. Thaxter was attracted to the specimen which he took at Mr. Desert by the orange color of the wings, and says the butterfly was apparently dancing in nuptial *pas de deux* with a companion; they twirled high into the air beyond reach but soon separated and came to earth again when one was captured."

EURÈME Swainson (*Terias* auct.)

E. EUTERPE Ménét. (*T. lisa* Bdv.). Little sulphur-butterfly. "One in excellent condition was taken on Mt. Desert, Me., by Mr. Roland Thaxter in August, 1880" (Scudder).

NYMPHALIDAE

ARGYNNIS Fabricius

A. CYBELE Fab. Great spangled fritillary. Common during July and August. The larva passes the winter in a partly

[8] For a list of the parasites of butterflies, moths, and other insects, consult the lists of parasitic wasps, Braconidae and Ichneumonidae, and the parasitic flies, Tachinidae.

grown state, feeding on violets in the spring and early summer.

A. APHRODITE Fab. Silver spot. July and August. Larva feeds on violets. Not as common as the preceding or following species.

A. ATLANTIS Edw. Mountain silver spot. The most common butterfly of the island during July and August. The larva feeds on violets.

BRENTHIS Hübner

B. MYRINA Cram. Silver-bordered fritillary. Common throughout the island during July and August. The larva feeds on violets.

B. BELLONA Fab. Meadow fritillary. Pond Heath; Salisbury Cove, July 24, 1925. It is local in its distribution, being found only about wet meadows and bogs. The larva usually feeds on violets.

EUPHYDRYAS Scudder (*Melitaea* auct.)

E. PHAETON Drury. The Baltimore. Meadow south of Salisbury Cove, July 14–18, 1923. The larva feeds on turtle-head (*Chelone glabra*).

MELITAEA Fabricius

M. HARRISI Scud. Harris's checker-spot. Common, Bar Harbor and S. W. Harbor, June 9–25. The larva feeds on asters and turtle-head (*Chelone glabra*).

PHYCIODES Doubleday

P. NYCTEIS Doubl. & Hew. Silver crescent. Common, Bar Harbor; Jordan Pond, and S. W. Harbor, June 7–25. The larva feeds on asters and other Compositae.

P. THAROS Drury. Pearl crescent. Common throughout the island during June, July, and August. Variable in color; the spring form is known as marcia and the summer form as morpheus. The larva feeds on aster.

P. BATESI Reak. Tawny crescent. Specimens that seem referable to this species have been taken at Bar Harbor and S. W. Harbor, June 25 and July 24.

Polygonia Hübner (*Grapta* Kirby)

P. interrogationis Fab. Violet-tip angle-wing. Rare. The form *umbrosa* was taken on Ironbound Isl. by Mr. Dwight Blaney. The larva feeds on nettle, elm, basswood, etc.

P. comma Harr. Comma butterfly. Not common. Ironbound Isl. (Blaney). The form *dryas* was taken at Salisbury Cove, July 14. Larva feeds on nettle, etc.

P. faunus Edw. Green comma. Not common. Bar Harbor, July 29; Seal Harbor (D. Rockefeller). The larva feeds on birch, currant, and gooseberry.

P. progne Cram. Gray comma. Salisbury Cove, July 14; Bar Harbor, Aug. 10. The larva feeds on currant and gooseberry.

Eugonia Hübner

E. j-album Bdv. & LeC. 'Compton tortoise.' Quite common at S. W. Harbor, Aug. 20–21. Larva feeds on birch.

Aglais Dalman

A. milberti Godart. Milbert's butterfly. Ironbound Isl. (Blaney). Larva feeds on nettle (Urtica dioica).

Euvanessa Scudder

E. antiopa Linn. Mourning cloak. Not common. S. W. Harbor, July 16, 1918; Bar Harbor, July 24, 1919. The larva feeds on willow, poplar, elm, etc.

Vanessa Fabricius (*Pyrameis* auct.)

V. atalanta Linn. Red admiral. Common. Bar Harbor and S. W. Harbor, July 10–Aug. 22. The larva feeds on nettle and hops.

V. virginiensis Drury (*V. huntera* Fab.). Hunter's butterfly. Common. Bar Harbor and S. W. Harbor, July 21–Aug. 22. The larva feeds on cudweed and everlasting.

V. cardui Linn. Painted lady. Common, July 29–Aug. 22, 1920. The larva feeds on a variety of plants: thistle, burdock, everlasting, etc.

Basilarchia Scudder

B. arthemis Drury. Banded purple. Common. Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 7. The larva feeds on birch, willow, and poplar.

B. arthemis var. proserpina Edw. One specimen was taken at Echo Lake, July 17, 1918. This form, which is common in the Berkshires and Catskills, is considered a hybrid between the more southern *Basilarchia astyanax* and the northern *B. arthemis*. If so, the former must occasionally reach Mt. Desert. In discussing the probable occurrence of *proserpina* at Halifax, Nova Scotia, Mr. Scudder says: "It is not at all improbable that *ursula* [*astyanax*] may yet be found as far north as Mt. Desert, and that colonies of *proserpina* are now living along the whole coast of Maine." (See Butterflies of New England, vol. 1, p. 291, 1889.)

B. archippus Cram. 'Viceroy.' Not common. Bar Harbor, Aug. 15. The larva feeds on willow and poplar.

Satyridae

Enodia Hübner (*Debis* Westwood)

E. portlandia Fab. Pearl-eyed nymph. Local in its distribution, wood near the Sieur de Monts Spring; Salisbury Cove, July 18–24. The larva feeds on grasses.

Satyrodes Scudder

S. canthus Linn. Common grass nymph. Bar Harbor; Salisbury Cove; S. W. Harbor, July 10–24. The larva feeds on grasses.

Cercyonis Speyer (*Satyrus* Westwood)

C. alope Fab. Common nymph or grayling. Common throughout the island from July 25 to Aug. 30. The larva feeds on grasses. The most interesting feature connected with this species is that here both the typical *alope* and the varieties *maritima* Edw. and *nephele* Kirby are equally abundant at the same time and place, with all gradations present. As *nephele* is the more northern form and the

others usually more southern, this presents another good illustration of climatic and environmental conditions favorable to both northern and southern forms.

Danaidae

Danaus Linnaeus (*Anosia* Hübner)

D. archippus Fab. (*A. plexippus* auct.). Monarch. S. W. Harbor, July, 1918; east of Champlain Mt., 1924 (Burton). I have seen this species but once. It is probably only an occasional visitor during its northern migration. In the absence of milkweed (Asclepias), the larva could probably feed on dogbane (Apocynum).

Lycaenidae

Thecla Fabricius (*Strymon* Hübner)

T. calanus Hbn. Banded hair-streak. Bar Harbor; Salisbury Cove, July 18–24. The larva feeds on oak and thorn (Crataegus).

Incialia Scudder

I. augustus Kby. Brown elfin. Ironbound Isl. (Blaney).

I. niphon Hbn. Banded elfin. 'Mt. Desert' (Scudder). The larva feeds on pine.

Heodes Dalman (*Chrysophanus* auct.)

H. epixanthe Bdv. & LeC. Least copper. Meadow south of Salisbury Cove, July 14–15, 1923. Larva feeds on cranberry.

H. hypophlaeas Bdv. American copper. Common. Bar Harbor; S. W. Harbor, July 10–Aug. 24. Larva feeds on field sorrel (*Rumex acetosella*).

Everes Hübner (*Lycaena* auct.)

E. comyntas Godart. Tailed blue. Near Bar Harbor. The larva feeds on clover and other leguminous plants.

Lycaena Linnaeus (*Lycaenopsis* Feld.)

L. argiolus Linn. (*L. pseudargiolus* Bdv. & LeC.). Common blue. Common, Bar Harbor; S. W. Harbor, June 7–July 21. The larva feeds on a great variety of plants. The

species is extremely variable, the spring forms *lucia* and *marginata* and the summer form *neglecta* being present.

Feniseca Grote

F. tarquinius Fab. Wanderer. Near Bar Harbor (Burton). The larva is carnivorous, feeding on the woolly aphids *Prociphilus tessellata* on the alder (Alnus) and *P. imbricator* on the beech.

Order STREPSIPTERA

Stylopidae

Stylops Kirby

S. sp. Echo Lake, June 17. Host *Andrena milwaukeensis* Groen.

S. sp. N. E. Harbor, July 8 (Minot). Host *Andrena thaspii* Groen.

Order COLEOPTERA. Beetles

Cicindelidae. Tiger beetles

Cicindela Linnaeus

C. purpurea Oliv. Near Bar Harbor (Burton).

C. limbalis Klug. Bar Harbor (Harris).

C. duodecimguttata Dej. Bar Harbor; Newport Cove, June 13–Sept. 13.

C. tranquebarica Hbst. (*C. vulgaris* Say). 'Mt. Desert' (Harris).

C. longilabris Say. Salisbury Cove; Long Pond; S. W. Harbor, June 25–July 12.

C. sexguttata Fab. Bar Harbor; Salisbury Cove, July 14–27.

Carabidae. Ground beetles

Scaphinotus Dejean

S. viduus Dej. Seal Harbor, Aug. 24, 1922 (Mrs. E. C. Bodman). The larva feeds on land snails.

Nomaretus LeConte

N. bilobus Say. A specimen of this rare beetle was found on Ironbound Isl. by Mr. Dwight Blaney.

CARABUS Linnaeus

C. CHAMISSONIS var. GROENLANDICUS Dej. 'Mt. Desert' (Austin). The occurrence of this beetle on the island seems very doubtful.

C. MAEANDER Fisch. Bar Harbor, Aug. 6 (Miss E. L. Sawyer).

CALOSOMA Webb

C. SYCOPHANTA Linn. Introduced from Europe to destroy the gypsy moth. A single specimen was found on the beach of Ironbound Isl. by Mr. Dwight Blaney.

C. CALIDUM Fab. Ironbound Isl. (Blaney).

NOTIOPHILUS Duméril

N. AENEUS Hbst. Bee Hive Mt., Aug. 13 (Sanford).

NEBRIA Latreille

N. SAHLBERGI Fisch. Echo Lake, July 17.

N. PALLIPES Say. Long Pond, July 16.

BEMBIDION Latreille (*Bembidium* auct.)

B. VARIEGATUM Say. 'Mt. Desert,' July, 1894.

B. QUADRIMACULATUM Linn. Mt. Desert, July, 1894.

TACHYTA Kirby

T. INORNATA Say (*Tachys nana* auct.). Bar Harbor, July 29.

PATROBUS Dejean

P. LONGICORNIS Say. S. W. Harbor; Salisbury Cove, July 13–14.

MYAS Dejean

M. CORACINUS Say. Bar Harbor; Salisbury Cove; Long Pond, June 26–July 17.

PTEROSTICHUS Bonelli

P. ADOXUS Say. Bar Harbor; Jordan Pond, Aug. 4–12.

P. REJECTUS LeC. Bar Harbor; Jordan Pond, June 16–Aug. 4.

EUFERONIA Casey

E. STYGICA Say. Bar Harbor, Aug. 14.

E. CORACINA Newn. Long Pond; Narrows, July 16–Aug. 13.

Gastrellarius Casey

G. honestus Say. Jordan Pond, Aug. 4–13.

Poecilus Bonelli

P. lucublandus Say. S. W. Harbor; Bar Harbor, June 8–July 13.

Omaseus Ziegler

O. corvinus Dej. Witch Hole Pond, Aug. 6 (Sanford).

Dysidius Chaudoir

D. mutus Say. Bar Harbor, July 11.

Bothriopterus Chaudoir

B. adstrictus Esch. Bar Harbor, June 27.
B. luczotti Dej. S. W. Harbor, July 13.

Bradytus Stephens

B. apricarius Payk. Bar Harbor, July 29.

Amara Bonelli

A. fallax LeC. Bar Harbor, June 13.

Pristodactyla Dejean

P. impunctata Say. Bar Harbor; Salisbury Cove, July 15–22.

Platynus Bonelli

P. sinuatus Dej. Bar Harbor, Aug. 12; Echo Lake, July 17–Aug. 12.
P. melanarius Dej. S. W. Harbor, June 18.
P. bogmanni Gyll. N. E. Harbor, Aug. 10 (Minot).
P. ruficornis LeC. S. W. Harbor, July 13.
P. hadryi Chd. mss. LeC. Bar Harbor, June 22.
P. metallescens LeC. Salisbury Cove, Aug. 11.

Lebia Latreille

L. viridis Say. S. W. Harbor, Aug. 20.
L. pumila Dej. S. W. Harbor, Aug. 20.
L. furcata LeC. Mt. Pemetic, Aug. 4 (Sanford).
L. ornata Say. Duck Brook, Sept. 11.
L. fuscata Dej. Bar Harbor, July 10.

CYMINDIS Latreille

C. CRIBRICOLLIS Dej. N. E. Harbor, July (Minot).

BRACHINUS Webb

B. CYANIPENNIS Say. S. W. Harbor, June 18.

CHLAENIUS Bonelli

C. PENNSYLVANICUS Say. S. W. Harbor; Witch Hole Pond, June 18–Aug. 6.

C. SERICEUS Forst. S. W. Harbor; Witch Hole Pond, June 16–Aug. 6.

HARPALUS Latreille

H. PLEURATICUS Kby. S. W. Harbor, Aug. 21.

ANISODACTYLUS Dejean

A. HARRISII LeC. Narrows, June 9.

A. INTERPUNCTATUS Kby. S. W. Harbor, June 18.

SELENOPHORUS Dejean

S. OPALINUS LeC. Echo Lake, June 17.

TRICHOCELLUS Ganglbauer

T. BOREELLUS Casey. S. W. Harbor, July 13.

CATHARELLUS Casey

C. CORDICOLLIS LeC. Salisbury Cove, July 18.

STENOLOPHUS Dejean

S. FULIGINOSUS Dej. S. W. Harbor, July 13.

HALIPLIDAE

HALIPLUS Latreille

H. RUFICOLLIS De G. Newport Cove, Sept. 13.

DYTISIDAE. Diving-beetles

LACCOPHILUS Leach

L. MACULOSA Germ. S. W. Harbor, July 15.

HYDROPORUS Clairville

H. UNDULATUS Say. S. W. Harbor, July 14.

AGABUS Leach

A. GAGATES Aubé. S. W. Harbor; Bar Harbor, June 25–July 11.

ILLYBIUS Erichson

I. SUBAENEUS Er. S. W. Harbor; Bar Harbor, July 14–29.

I. ANGUSTIOR Gyll. S. W. Harbor, July 14.

I. BIGUTTULUS Germ. Salisbury Cove, Aug. 10.

COPTOTOMUS Say

C. INTERROGATUS Fab. Bar Harbor; Salisbury Cove, June 11–Aug. 10.

COLYMBETES Clairville

C. SCULPTILIS Harr. Bar Harbor, June 9–13.

DYTISCUS Linnaeus

D. DAURICUS Gebl. Ironbound Isl. (Blaney).

D. sp.? Bar Harbor, July. Larva from lily pond, Mt. Desert Nurseries. It may possibly represent the above species. The larvae of this genus are popularly known as "water tigers."

ACILIUS Leach

A. SEMISULCATUS Aubé. Small pond on hill east of Salisbury Cove, Aug. 10, 1926.

GYRINIDAE. Whirligig-beetles

DINEUTES MacLeay

D. HORNI Robts. Ice ponds, Manset; Bar Harbor, July 15–26.

GYRINUS Geoffroy

G. BOREALIS var. LUGENS LeC. Ice ponds, Manset; Bar Harbor, July 15–Aug. 14.

G. PUGIONIS Fall. Bar Harbor; Salisbury Cove, July 29–Aug. 10.

HYDROPHILIDAE. Water-scavenger beetles

HYDROPHILUS De Geer

H. OBTUSATUS Say. Bar Harbor, July 24.

TROPISTERNUS Solier

T. GLABER Hbst. Witch Hole Pond; Salisbury Cove, June 13–Aug. 10.

ENOCHRUS Thomson (*Philhydrus* Solier)

E. PERPLEXUS LeC. Narrows, Aug. 13.

CYMBIODYTA Bedel

C. FIMBRIATA Melsh. Narrows, Aug. 13.

CRYPTOPLEURUM Mulsant

C. MINUTUM Fab. S. W. Harbor, July 15.

SILPHIDAE. Carrion-beetles

NECROPHORUS Fabricius. Burying beetles

N. SAYI Lap. Bar Harbor (Moore).

N. ORBICOLLIS Say. Bar Harbor, Aug. 6 (Miss E. L. Sawyer).

N. PUSTULATUS Hersch. Bar Harbor (Miss Sawyer).

N. TOMENTOSA Web. Bar Harbor; Salisbury Cove, July 15–Aug. 16.

N. VESPILLOIDES Hbst. S. W. Harbor, on dead shrew; Bar Harbor; Salisbury Cove, on dead snake (Sanford), July 11–Aug. 16.

SILPHA Linnaeus

S. SURINAMENSIS Fab. Common, Bar Harbor, Aug. 6 (Miss Sawyer).

S. LAPPONICA Hbst. Salisbury Cove, on a dead starnosed mole, and on a dead snake; Bar Harbor, July 15–Aug. 11.

S. NOVEBORACENSIS Forst. S. W. Harbor; Bar Harbor; Salisbury Cove, on a dead snake (Sanford), July 15–Aug. 11.

S. AMERICANA Linn. Common, July 15–Aug. 14.

CHOLEVA Latreille

C. BASILLARIS Say. S. W. Harbor, July 13, on a dead shrew.

STAPHYLINIDAE. Rove beetles

ANTHOBIUM Stephens

A. FOTHOS Mann. S. W. Harbor, June 27.

STENUS Latreille

S. FLAVICORNIS Er. S. W. Harbor, July 13.

LATHROBIUM Gravenhorst

L. SIMILE LeC. Jordan Pond, July 4 (Sanford).

PHILONTHUS Curtis

P. POLITUS Linn. Salisbury Cove, June 9.
P. FURVUS Nordm. Narrows, Aug. 13.
P. CYANIPENNIS Fab. Bar Harbor, July 20, on decaying fungi.

STAPHYLINUS Linnaeus

S. FOSSATOR Grav. Green Mt.; Bar Harbor, July 25–Aug. 15.
S. CINNOMOPTERUS Grav. Bar Harbor, July 10–Aug. 10.
S. VIOLACEA Grav. Wild Cat Valley, Aug. 8 (Sanford).
S. VIRIDANUS Horn. Bar Harbor, Aug. 10.

OCYPUS Kraatz

O. ATER Grav. S. W. Harbor, Sept. 5 (Alexander).

ONTHOLESTES Ganglbauer (*Listotrophus* auct.)

O. CINGULATUS Grav. Bar Harbor; S. W. Harbor, June 7–July 24.

CREOPHILUS Mannerheim

C. MAXILLOSUS var. VILLOSUS Grav. Wood Lake; Hull Cove, Aug. 8 (Sanford).

QUEDIUS Stephens

Q. LAEVIGATUS Gyll. Bar Harbor, Aug. 14.

OXYPORUS Fabricius

O. FASCIATUS Horn. Duck Brook; Echo Lake, Sept. 3–11, on decaying fungi.
O. BICOLOR Fauv. Echo Lake; Long Pond; Bar Harbor, Aug. 29–Sept. 11.
O. LATERALIS Grav. Bar Harbor, Sept. 9.

TACHINUS Gravenhorst

T. MEMNONIUS Grav. Duck Brook; S. W. Harbor, Sept. 3–11, on decaying fungi.
T. FIMBRIATUS Grav. Bar Harbor; Duck Brook, Aug. 14–Sept. 11, on decaying fungi.
T. PICIPES Er. Narrows; Bar Harbor, July 13–Aug. 10.

CONOSOMA Kraatz

C. IMBRICATUS Casey. Narrows, Aug. 3 (Sanford).

Bolitobius Stephens

B. cinctocollis Say. Salisbury Cove; Duck Brook, July 23–Sept. 11.

Atheta Thomson

A. sp. S. W. Harbor, Aug. 26.

Aleochara Gravenhorst

A. sp. Salisbury Cove, July 25.

Baryodma Thomson

B. bimaculata Grav. Salisbury Cove, Aug. 11.

Scaphidiidae

Scaphisoma Leach

S. convexum Say. Bar Harbor, July 24.

Baeocera Erichson

B. concolor Fab. S. W. Harbor, July 13.

Histeridae

Hister Linnaeus

H. furtivus LeC. Salisbury Cove, Aug. 11.

H. depurator Say. S. W. Harbor, July 15.

Platysoma Leach

P. coarctatum LeC. Wood Lake, Hulls Cove, Aug. 8 (Sanford).

Saprinus Erichson

S. assimilis Payk. Salisbury Cove, on dead snake (Sanford); Bar Harbor, July 15–Aug. 11.

Lycidae

Celestes Newman

C. basilaris LeC. Salisbury Cove; Echo Lake; N. E. Harbor, July 15–Aug. 23.

Eros Newman

E. aurora Hbst. Ironbound Isl. (Blaney).

Lampyridae. Fireflies

Lucidota Laporte

L. atra Fab. Bar Harbor; N. E. Harbor; Echo Lake, June 16–July 12.

L. corrusca Linn. Common, June–Sept.

MARINE BIOLOGICAL LABORATORY LIBRARY WOODS HOLE MASS.

L. CORRUSCA var. AUTUMNALIS Melsh. Common, June–Sept.
L. DECIPIENS Harr. Bar Harbor; Salisbury Cove; S. W. Harbor, July 15–Aug. 10.
L. NIGRICANS Say. S. W. Harbor; Bar Harbor, July 20–Aug. 10.

PYRACTOMENA LeConte

P. UNGULATA Say. S. W. Harbor, June 20–July 15.
P. BOREALIS Rand. Long Pond, June 26.

PHOTINUS Lacordaire

P. ARDENS LeC. S. W. Harbor, common, June 21.
P. SCINTILLANS Say. Salisbury Cove, July 15.

PHOTURUS LeConte

P. PENNSYLVANICA De G. Salisbury Cove; S. W. Harbor, July 12–19.

CANTHARIDAE

PODABRUS Westwood

P. RUGULOSA LeC. N. E. Harbor; Salisbury Cove, July 1–22.
P. DIADEMA Fab. Bar Harbor; S. W. Harbor, June 7–July 10.
P. MODESTUS Say. S. W. Harbor; Echo Lake; Long Pond, June 27–July 16.
P. PUNCTATUS LeC. Bar Harbor, June 14.
P. PINIPHILUS Esch. S. W. Harbor, July 14.

CANTHARUS Linnaeus (*Telephorus* Schaeffer)

C. NIGRITULUS LeC. Bar Harbor; S. W. Harbor; Salisbury Cove, July 10–15.
C. SCITULUS Say. S. W. Harbor; Salisbury Cove; Bar Harbor, July 13–24.
C. ROTUNDICOLLIS Say. Bar Harbor; N. E. Harbor, July 7–20.
C. CURTISI Kby. Long Pond; Bar Harbor; N. E. Harbor, June 27–July 20.
C. ANDERSONI Frost. Bar Harbor; Jordan Pond; Salisbury Cove, June 7–July 18.

MALTHODES Kiesenwetter

M. CONCAVUS LeC. Bar Harbor, July 24.
M. FRAGILIS LeC. S. W. Harbor, July 13.

MELYRIDAE

COLLOPS Erichson

C. TRICOLOR Say. Bar Harbor (Moore); Long Pond, June 27.

MALACHIUS Fabricius

M. AENEUS Linn. Bar Harbor; S. W. Harbor, June 11–16.

ATTALUS Erichson

A. TERMINALIS Er. S. W. Harbor; N. E. Harbor, July 20–26.

CLERIDAE

THANASIMUS Latreille

T. DUBIUS Fab. Bar Harbor, July 10.

TRICHODES Herbst

T. NUTTALLI Kby. 'Mt. Desert' (J. C. Merrill).

HYDNOCERA Newman

H. HUMERALIS var. DIFFICILIS L. E. Salisbury Cove; S. W. Harbor, July 12–19.

H. PALLIPENNIS Say. Long Pond; Jordan Pond; Echo Lake, Aug. 21–Sept. 3.

ISOHYDNOCERA Chapin

I. CURTIPENNIS Newn. Salisbury Cove, July 12.

CORYNETIDAE

PHYLLOBAENUS Spinola

P. DISLOCATUS Say. Bar Harbor (Moore).

NECROBIA Latreille

N. VIOLACEA Linn. Salisbury Cove, July 14, on dried bones of a horse.

CEPHALOIDAE

TYPITIUM Casey

T. UNGULARE LeC. Echo Lake, July 17.

OEDEMERIDAE

ASCLERA Stephens

A. RUFICOLLIS Say. Witch Hole Pond, June 13.

MORDELLIDAE

TOMOXIA Costa

T. LINEELLA LeC. Duck Brook, Aug. 18.

MORDELLA Linnaeus

M. SCUTELLARIS Fab. Long Pond, July 16.
M. MARGINATA Melsh. Common, July 12–Sept. 7.

MORDELLISTENA Costa

M. TRIFASCIATA Say. Salisbury Cove, Aug. 11.
M. LIMBALIS Melsh. S. W. Harbor; Eagle Lake; Bar Harbor, July 20–29.
M. SCAPULARIS Say. Eagle Lake, July 18.
M. CERVICALIS LeC. 'Mt. Desert.'
M. ERRANS Fall. Bar Harbor, July 20.
M. NIGRICANS Melsh. 'Mt. Desert,' July 20 (McAtee).
M. MARGINALIS Say. Bar Harbor, Aug. 10.

ANASPIS Geoffroy

A. FLAVIPENNIS Hald. Long Pond, July 16.
A. RUFA Say. Echo Lake; Eagle Lake, July 12–18.

MELOIDAE. Blister-beetles

MACROBASIS LeConte

M. UNICOLOR Kby. Salisbury Cove, July 8–14, feeding on the leaves of meadow rue (Sanford).

MELOE Linnaeus

M. AMERICANUS Leach. S. W. Harbor, Aug. 30 (Alexander).

PYROCHROIDAE

SCHIZOTUS Newman

S. CERVICALIS Newn. Upper Hadlock Pond, June 10.

DENDROIDES Latreille

D. BICOLOR Newn. (*canadensis* LeC.). Echo Lake, July 17.
D. CONCOLOR Newn. Bar Harbor; N. E. Harbor, June 17–July 7.

ELATERIDAE. Click-beetles

The larvae are known as 'wire worms'; some live in decaying wood, while others are injurious of vegetables.

PITYOBIUS LeConte

P. ANGUINUS LeC. Ironbound Isl. (Blaney).

ATHOUS Eschscholtz

A. BRIGHTWELLI Kby. Bar Harbor; Newport Cove, July 11–22.

A. ACANTHUS Say. Bar Harbor, July 24.

LEPTUROIDES Herbst

L. DENTICORNIS Kby. Common, June 10–27.

LUDIUS Eschscholtz (*Corymbites* Latreille)

L. RESPLENDENS Esch. S. W. Harbor, June 25.

L. SJAELANDICUS Müll. (*tessellatus* Fab.). Witch Hole Pond, June 13.

L. HAMATUS Say. N. E. Harbor, Aug. 13 (Minot).

L. SPINOSUS LeC. Near Bar Harbor (Burton).

L. TRIUNDULATUS Rand. Jordan Pond; Bar Harbor; Long Pond, June 10–July 16.

L. MEDIANUS Germ. Salisbury Cove, July 13–17.

L. AEREIPENNIS Kby. S. W. Harbor; Bar Harbor, July 11–20.

L. NIGRICORNIS Panz. Echo Lake, July 12.

L. ARATUS LeC. S. W. Harbor, July 10.

L. CRUCIATUS Linn. Common, June 9–July 19.

HEMICREPIDIUS Germar (*Asaphes* Kirby)

H. MEMNONIUS Hbst. Common, June 17–Aug. 15.

DOLOPIUS Eschscholtz

D. LATERALIS Esch. Bar Harbor; Salisbury Cove; Long Pond, July 6–20.

SERICUS Eschscholtz

S. HONESTUS Rand. Bar Harbor, June 8–22.

AGRIOTES Eschscholtz

A. MANCUS Say. Bar Harbor, June 16.

A. STABILIS LeC. Echo Lake, June 27.

A. FUSCOSUS LeC. Long Pond; Bar Harbor, June 27–July 19.

A. LIMOSUS LeC. S. W. Harbor; Echo Lake, July 11, 12.

A. FERRUGINEIPENNIS LeC. Bar Harbor, June 16.

Betarmon Kiesenwetter

B. bigeminatus Rand. S. W. Harbor, July 11.

Elater Linnaeus

E. rubricus Say. Bar Harbor, July 10.
E. mixtus Hbst. 'Mt. Desert,' July (McAtee).
E. nigricans Germ. Echo Lake, June 17.

Melanotus Eschscholtz

M. castenipes Payk. Bar Harbor; Long Pond; N. E. Harbor, July 16–19.
M. leonardi LeC. Duck Brook; Bar Harbor; S. W. Harbor, June 13–July 19.

Cardiophorus Eschscholtz

C. gagates Er. Echo Lake, June 27.

Melasidae

Nicrorhagus Eschscholtz

M. imperfectus LeC. Bar Harbor, July 29.

Throscidae

Aulonothroscus Horn

A. constrictor Say. Bar Harbor; Long Pond, June 16–July 16.

Buprestidae. Flat-headed wood-borers

Chalcophora Solier

C. virginiensis Drury. Bar Harbor (Moore); Salisbury Cove, June 9. The larva lives in pine.
C. lacustris LeC. Bar Harbor, June 8.

Dicerca Eschscholtz

D. divericata Say. Upper Hadlock Pond, June 10. The larva breeds in maple, beach cherry, and apple.
D. prolongata LeC. 'Mt. Desert' (H. Thayer).

Buprestis Linnaeus

B. maculiventris Say. Bar Harbor, July 29. The larva infests pine and spruce.
B. fasciata Fab. Ironbound Isl. (Blaney).

MELANOPHILA Eschscholtz

M. FULVOGUTTATA Harr. 'Yellow-dotted Buprestris.' Bar Harbor, Long Pond, June 11–July 16. The larva lives beneath the bark of pine and spruce logs.

M. ACUMINATA De G. Bar Harbor; S. W. Harbor, Aug. 18–24. The larva infests partly dead spruce.

CHRYSOBOTHRIS Eschscholtz

C. PUSILLA Cast. Bar Harbor, July 29. The larva infests pine and spruce.

C. TRINERVIA Kby. Long Pond, July 16. The larva infests pine and spruce.

C. DENTIPES Germ. Long Pond; Bar Harbor, June 7–July 29. The larva lives in pine and spruce.

C. FEMORATA Oliv. Seal Harbor (Prof. Stowell); Echo Lake; Bar Harbor, June 27–July 29.

C. SCABRIPENNIS Cast. Long Pond; Bar Harbor, July 16–29.

AGRILUS Stephens

A. ANXIUS Gory. 'Bronze birch borer.' Bar Harbor, July 24.

A. RUFICOLLIS Fab. Red-necked borer. Salisbury Cove, July 23. The larva bores into the stalk of blackberries and raspberries.

A. LATERALIS Say. Salisbury Cove; S. W. Harbor, July 14–21.

A. OBSOLETOGUTTATUS Gory. Echo Lake, July 12. The larva infests oak.

A. POLITUS Say. Salisbury Cove, July 23.

BRACHYS Solier

B. AEROSUS Melsh. Bar Harbor; Salisbury Cove, June 22–July 15. The larva infests oak.

B. AERUGINOSUS Gory. Salisbury Cove, July 18.

DASCILLIDAE

EURYPOGON Motschulsky

E. NIGER Melsh. Salisbury Cove, July 8.

HELODIDAE

CYPHONA Paykull

C. RUFICOLLIS Say. Bar Harbor, June 22.

C. OBSCURUS Guer. Long Pond; Echo Lake; Bar Harbor, July 12–30.

C. COLLARIS Guer. Bar Harbor; Salisbury Cove, July 15–24.

C. VARIABILIS Thunb. S. W. Harbor; Breakneck Pond; July 14–Sept. 8.

PRIONOCYPHON Redtenbacher

P. DISCOIDEUS Say. Bar Harbor, July 20.

SCIRTES Illiger

S. TIBIALIS Guer. Witch Hole Pond, July 30.

DERMESTIDAE

BYTURUS Latreille

B. UNICOLOR Say. Bar Harbor, July 10.

DERMESTES Linnaeus

D. LARDARIUS Linn. Larder beetle. S. W. Harbor; Salisbury Cove, June 24–July 10.

ATTAGENUS Latreille

A. PICEUS Oliv. Black carpet beetle. Bar Harbor, July (Moore).

ANTHRENUS Latreille

A. MUSEORUM Linn. Museum beetle. Bar Harbor; Eagle Lake; Long Pond, July 16–Aug. 10.

A. SCROPHULARIAE Linn. Buffalo carpet beetle. Bar Harbor; S. W. Harbor, June 16–21.

BYRRHIDAE

BYRRHUS Linnaeus

B. AMERICANUS LeC. S. W. Harbor; Green Mt., July 13–Aug. 17.

OSTOMIDAE (*Trogositidae*)

THYMALUS Latreille

T. MARGINICOLLIS Chev. (*T. fulgidus* Er.). Jordan Pond; Salisbury Cove, June 10–July 15. Lives in the white birch fungus, *Polyporus betulinus*.

NITIDULIDAE

COLOPTERUS Erichson

C. TRUNCATUS Rand. Bar Harbor, Sept. 9.

NITIDULA Fabricius

N. RUFIPES Linn. Salisbury Cove, July 14.

OMOSITA Erichson

O. COLON Linn. Salisbury Cove, July 14. On dried bones of a dead horse.

GLESCHROCHILUS Reitter (*Ips* of authors)

G. FASCIATUS Oliv. Bar Harbor, July 4 (Moore).
G. SANGUINOLENTUS Oliv. Bar Harbor, July 4 (Moore).

CRYPTOPHAGIDAE

TELMATOPHILUS Heer

T. AMERICANUS LeC. Bar Harbor, June 13–Aug. 18.

ANTHEROPHAGUS Latreille

A. CONVEXULUS LeC. Echo Lake, July 12.

ANCHICERA Thomson

A. EPHIPPIATA Zimm. Bar Harbor (Moore).

LATHRIBIIDAE

LATHRIDIUS Herbst

L. LIRATUS LeC. Witch Hole Pond, June 13.

CORTICARIA Marsham

C. FERRUGINEA Marsh. Long Pond, July 16.

MELANOPHTHALMA Motschulsky

M. GIBBOSA Hbst. 'Mt. Desert,' July (McAtee).

ENDOMYCHIDAE

MYCETINA Mulsant

M. PERPULCHRA Newn. S. W. Harbor, July 13.

ENDOMYCHUS Panzer

E. BIGUTTATUS Say. Ironbound Isl. (Blaney).

PHALACRIDAE

OLIBRUS Erichson

O. PALLIPES Say. Bar Harbor; Narrows; Seal Harbor, July 24–Aug. 20.

COCCINELLIDAE. Ladybeetles

HYPERASPIS Chevrolat

H. BIGEMINATA Rand. Bar Harbor, Aug. 16.

BRACHYACANTHUS Chevrolat

B. URSINA Fab. Long Pond, Aug. 21.

STETHORUS Weise

S. PUNCTUM LeC. Mt. Desert, July (McAtee).

SCYMNUS Kugelann

S. CAUDALIS LeC. Long Pond; Echo Lake; Salisbury Cove, June 26–July 15.

S. TENEBROSUS Muls. S. W. Harbor, Aug. 20.

S. QUADRITAENIATUS LeC. Witch Hole Pond, Aug. 18.

PSYLLOBORA Chevrolat

P. VIGINTI-MACULATA Say. Twenty-spotted ladybeetle. Common, June 16–Sept. 11.

ANISOSTICTA Chevrolat

A. BITRIANGULARIS Say (*A. strigata* auct.). S. W. Harbor: Narrows, June 21–Sept. 12.

HIPPODAMIA Chevrolat

H. TREDECIM-PUNCTATA Linn. Thirteen-spotted ladybeetle. S. W. Harbor, July 13.

H. PARENTHESIS Say. S. W. Harbor, Aug. 23.

COCCINELLA Linnaeus

C. PERPLEXA Muls. (*C. trifasciata* auct.). Three-banded ladybeetle. Bar Harbor; Long Pond; S. W. Harbor, June 18–Sept. 11.

C. TRICUSPIS Kby. Salisbury Cove, July 13–Aug. 5.

C. NOVEMNOTATA Hbst. Nine-spotted ladybeetle. S. W. Harbor, Aug. 21.

C. TRANSVERSOGUTTATA Fald. Common, June 11–Aug. 21.

ADALIA Mulsant

A. BIPUNCTATA Linn. Two-spotted ladybeetle. Bar Harbor; S. W. Harbor, June 11–Sept. 6.

CLEIS Mulsant

C. PICTA Rand. Ironbound Isl. (Blaney); S. W. Harbor, Aug. 29 (Alexander).

ANISOCALVIA Crotch

A. DUODECIM-MACULATA Gebl. Twelve-spotted ladybeetle. Salisbury Cove, July 27; Ironbound Isl., Aug. (Blaney).

A. QUATUORDECIMGUTTATA var. SIMILIS Rand. Bar Harbor, June 11–15.

NEOMYSIA Casey

N. PULLATA Say. Bar Harbor (Moore).

CHILOCORUS Leach

C. BIVULNERUS Muls. Twice-stabbed ladybeetle. Bar Harbor, July 29.

ALLECULIDAE (*Cistelidae*)

HYMENORUS Mulsant

H. NIGER Melsh. N. E. Harbor, Aug. 10 (Minot).

H. PILOSUS Melsh. Bar Harbor, July (Moore).

ISOMIRA Mulsant

I. QUADRISTRIATA Couper. Common, June 17–July 13.

CAPNOCHROA LeConte

C. FULIGINOSA Melsh. Dry Mt., July 17 (Sanford).

ANDROCHIRUS LeConte

A. ERYTHROPUS Kby. Salisbury Cove; Narrows, July 13–27.

TENEBRIONIDAE

PHELLOPSIS LeConte

P. OBCORDATA Kby. Common, June 10–Aug. 6. It lives in the white birch tree fungus, *Polyporus betulina.*

BOLITOTHERUS Candèze

B. CORNUTUS Panz. Bar Harbor; Jordan Pond, July 21–Aug. 4. It lives in the 'shining tree fungus,' *Fomes lucidus.*

DIAPERIS Geoffroy

D. MACULATA Oliv. (*D. hydni* Fab.). Jordan Pond; Seal Harbor, June 10–Aug. 6. It lives in the white birch tree fungus, *Polyporus betulina.*

SCOTOBATES Horn

S. CALCARATUS Fab. Sieur de Monts Spring, Bar Harbor, July 22.

UPIS Fabricius

U. CERAMBOIDES Linn. St. Sauveur Mt. (Sanford); S. W. Harbor, July 19–Sept. 6.

TENEBRIO Linnaeus

T. MOLITOR Linn. 'Meal worm.' Bar Harbor; S. W. Harbor (Mrs. Palmer), June 27–July 26.

LAGRIIDAE

ARTHOMACRA Kirby

A. AENEA Say. Common, June 13–July 25.

MELANDRYIDAE

PENTHE Newman

P. PIMELIA Fab. N. E. Harbor (Minot); Bar Harbor, July 10–Aug. 12.

EMMESA Newman

E. CONNECTANS Newm. Acadia (Robinson) Mt., June 26.

SERROPALPUS Hellenius

S. BARBATUS Schall. Bar Harbor (Moore).

MICROTOMUS LeConte

M. SERICANS LeC. Salisbury Cove, July 15.

SYMPHORA LeConte

S. FLAVICOLLIS Hald. Long Pond, July 16.

CANIFA LeConte

C. PUSILLA Hald. Echo Lake, June 27–Sept. 1.

PTINIDAE

PTINUS Linnaeus

P. FUR Linn. Bar Harbor, June 17 (Moore).

ANOBIIDAE

ERNOBIUS Thomson

E. MOLLIS Linn. S. W. Harbor; N. E. Harbor; Green Mt., June 22–July 25.

CISIDAE

XESTOCIS Casey

X. LEVETTI Casey. Bar Harbor; Jordan Pond, July 22–Aug. 4. It lives in the dry 'shining tree fungus,' *Fomes lucidus,* on decaying hemlock logs.

SCARABAEIDAE. Scarabaeids or lamellicorn beetles

ONTHOPHAGUS Latreille

O. HECATE Panz. Salisbury Cove, July 15. On a dead star-nosed mole.

APHODIUS Illiger

A. FOSSOR Linn. Bar Harbor, June 11.

A. HUMATUS Say. 'Mt. Desert' (S. Henshaw).

A. FIMETARIUS Linn. Common dung beetle. June 20–Sept. 9.

A. GRANARIUS Linn. Bar Harbor (Moore).

DIALYTES Harold

D. STRIATULUS Say. S. W. Harbor, July 14.

GEOTRUPES Latreille

G. BALYI Jek. Bar Harbor; Wood Lake (Sanford); Long Pond, July 29–Aug. 21. It lives in the underground portion of the stems of toadstools.

G. EGERIEI Germ. S. W. Harbor, Sept. 5 (Alexander). Also frequents fungi.

G. SPLENDIDUS Fab. N. E. Harbor, Aug. 23 (Minot); Ironbound Isl. (Blaney).

SERICA MacLeay

S. CUCULLATA Dawson. Salisbury Cove, July 12 (Sanford).

S. TRISTIS LeC. Salisbury Cove, July 14.

DIPLOTAXIS Kirby

D. LIBERTA Germ. Bar Harbor (Moore); Ironbound Isl. (Blaney).

D. TRISTIS Kby. Salisbury Cove, July 10 (Sanford).

MARINE BIOLOGICAL LABORATORY WOODS HOLE LIBRARY MASS.

PHYLLOPHAGA Harris (*Lachnosterna* Hope)

P. FUSCA Froelich. Common Maybeetle or 'June bug.' Long Pond, June 27. The larva, commonly known as the 'white grub,' often does considerable (injury) to the roots of grasses, strawberries and other plants.

P. ANXIA LeC. Bar Harbor, June 11.

DICHELONYX Harris

D. ELONGATA Fab. Bar Harbor, June 13–22.

D. SUBVITTATA LeC. Bar Harbor; Echo Lake, June 17–July 12.

D. DILUTA Fall. Bar Harbor, June 22.

EUPHORIA Burmeister

E. INDA Linn. Acadia (Robinson) Mt., Sept. 7. On sap oozing from gall-infested acorns of the scrub oak; Sargent Mt. (Moore).

TRICHIOTINUS Casey (*Trichius* auct.)

T. AFFINIS G. & P. Bar Harbor; S. W. Harbor; Long Pond, June 17–July 16.

TROGIDAE. Skin beetles

TROX Fabricius

T. UNISTRIATUS Beauv. Salisbury Cove, Aug. 7. On the dried skin and hoofs of a horse.

LUCANIDAE. Stag beetles

PLATYCERUS Geoffroy

P. DEPRESSUS LeC. Beehive Mt., Aug. 13 (Sanford).

CERAMBYCIDAE. Long-horned or wood-boring beetles

TRAGOSOMA Serville

T. DEPSARIUM var. HARRISI LeC. S. W. Harbor, July, 1917 (Fernald); Bar Harbor, July 29; Ironbound Isl. (Blaney). Rare; the larva lives in spruce and pine.

ASEMUM Eschscholtz

A. MOESTUM Hald. Bar Harbor; Long Pond, June 11–20. The larva infests pine and spruce.

Rhagium Fabricius

R. lineatum Oliv. Bar Harbor, June 11. The larva lives under the bark of pine and spruce, especially logs that have been recently cut.

Hapalosalia Casey

H. sphaericollis Say. Bar Harbor; S. W. Harbor, June 16–July 11.

Evodinus LeConte

E. monticola Rand. Bar Harbor; S. W. Harbor, June 8–22.

Gaurotes LeConte

G. cyanipennis Say. Jordan Pond, June 10.

G. abdominalis Bland. Common, June 10–July 21.

Anthophilax LeConte

A. viridis LeC. Long Pond; Echo Lake, June 27–July 17. It frequents the spruce.

Judolia Mulsant

J. sexmaculata Linn. Echo Lake, July 12–17.

Brachyleptura Casey

B. rubrica Say. Bar Harbor, July 29. The larva lives in beech.

B. vagans Oliv. Bar Harbor; S. W. Harbor; Echo Lake. The larva lives in yellow birch.

B. canadensis Fab. Common, July 29–Sept. 1. The larva lives in hemlock.

Parallelina Casey

P. subargentata Kby. Eagle Lake; Bar Harbor, July 18.

Strangalepta Casey

S. lineola Say. Bar Harbor, June 28–July 17.

S. pubera Say. Bar Harbor, June 11.

S. vittata Oliv. Common, July 14–24. This species was bred from larch by M. W. Blackman.

Strangalia Serville

S. subhamata Rand. Bar Harbor; Green Mt., July 21–Aug. 17.

S. plebeja Rand. Bar Harbor, July 19–28.

LEPTURA Linnaeus

L. NIGRELLA Say. Long Pond, June 27.

L. CHRYSOCOMA Kby. Common, July 10–23.

L. PROXIMA Say. Bar Harbor, July 19–20.

L. BIFORIS Newn. Duck Brook; Green Mt.; N. E. Harbor, July 30–Aug. 19.

L. MUTABILIS Newn. Bar Harbor; S. W. Harbor, June 8–July 25. The larva lives in beech.

L. PEDALIS LeC. S. W. Harbor; Long Pond, July 15–16.

BELLAMIRA LeConte

L. SCALARIS Say. 'Mt. Desert' (P. S. Sprague). The larva lives in yellow birch and maple.

TYPOCERUS LeConte

T. VELUTINUS Oliv. Common, July 20–Sept. 6.

T. ACUTICAUDUS Casey. S. W. Harbor, July 20.

DESMOCERUS Serville

D. PALLIATUS Forst. Elder-borer. Bar Harbor, July 18–29.

ROPALOPUS Mulsant

R. SANGUINICOLLIS Horn. S. W. Harbor, July 10, 1910 (Fernald).

CALLIDIUM Fabricius

C. VIOLACEUM Linn. (*C. janthinum* LeC.). Near Bar Harbor, July 5 (R. H. Burton).

PHYMATODES Mulsant

P. DIMIDIATUS Kby. Echo Lake, July 17.

NEOCLYTUS Thomson

N. MURICATULUS Kby. Bar Harbor; S. W. Harbor; Long Pond, July 16–29.

N. ACUMINATUS Fab. Long Pond, June 27.

XYLOTRECHUS Chevrolat

X. UNDULATUS var. FUSCUS Kby. Near Bar Harbor, Aug. 4 (R. H. Burton).

ANTHOBOSCUS Chevrolat

A. RURICOLA Oliv. Salisbury Cove; S. W. Harbor, July 10–Aug. 21. The larva lives in oak.

MONOCHAMUS Serville (*Monohammus* auct.)

M. NOTATUS Drury (*M. confusor* Kby.). Gray pine-borer. Bar Harbor; N. E. Harbor; Salisbury Cove, July 20–Aug. 22. The 'sawyer' of the lumbermen; it infests both pine and spruce.

M. SCUTELLATUS Say. Black pine-borer. S. W. Harbor; Long Pond; Bar Harbor, July 11–20. The larva of this species also bores into the pine and spruce.

MICROGOES Casey

M. OCULATUS LeC. Echo Lake, June 17.

SAPERDA Fabricius

S. OBLIQUA Say. Alder borer. Tremont, Aug. 23.

S. CANDIDA Fab. Round-headed apple-tree borer. S. W. Harbor; Echo Lake, July 15–Aug. 24. The larva is injurious to the apple, quince, hawthorn, and shadbush.

S. CALCARATA Say. Poplar borer. Ironbound Isl. (Blaney).

S. CONCOLOR var. UNICOLOR Felt & Jout. Near Bar Harbor (R. H. Burton). This also infests the poplar.

OBEREA Mulsant

O. PALLIDA Casey. Near Bar Harbor (R. H. Burton); Salisbury Cove, Aug. 11.

CHRYSOMELIDAE. Leaf beetles

DONACIA Fabricius

D. PROXIMA Kby. Bar Harbor; Witch Hole Pond, June 7–Sept. 11. On leaves of the water lily.

D. CINCTICORNIS Newm. 'Mt. Desert' (McAtee).

D. SUBTILIS Kunze. Bar Harbor, July 20–29. On leaves of the water lily.

D. SUBTILIS var. FULGENS LeC. Bar Harbor, July 24. On leaves of the water lily.

D. BIIMPRESSA Melsh. (torosa LeC.). Upper Hadlock Pond, June 10.

D. DISTINCTA LeC. Bar Harbor, June 11.
D. PUSILLA Say. Witch Hole Pond, June 13.
D. METALLICA Ahrens. Bar Harbor, June 11.
D. EMARGINATA Kby. S. W. Harbor; Bar Harbor, July 15–20.
D. RUFA Say. Witch Hole Pond, June 13.
D. HIRTICOLLIS Kby. Salisbury Cove, Aug. 10.

ORSODACHNA Latreille

O. ATRA Ahrens. Witch Hole Pond, June 13.

SYNETA Lacordaire

S. FERRUGINEA Germ. Duck Brook, June 13. It feeds on birch leaves.

LEMA Fabricius

L. BRUNNICOLLIS LeC. Salisbury Cove, July 15.

CHLAMYS Knoch

C. GIBBOSA Fab.? Salisbury Cove, July 15. Larva.

EXEMA Lacordaire

E. CONSPERSA Mann. Salisbury Cove, July 15.

PACHYBRACHYS Redtenbacher

P. ATOMARIUS Melsh. S. W. Harbor, Sept. 3 (Alexander).
P. OTHONUS Say. Salisbury Cove, July 15–25.
P. HEPATICUS Melsh. S. W. Harbor, June 20.

CRYPTOCEPHALUS Geoffroy

C. NOTATUS var. QUADRIMACULATUS Say. S. W. Harbor; Salisbury Cove, July 11–Aug. 20. It feeds on the leaves of oak.
C. INCERTUS Oliv. Breakneck Pond, Sept. 8. It feeds on the leaves of cranberry.

DIACHUS LeConte

D. AURATUS Fab. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Aug. 10.

TRIACHUS LeConte

T. ATOMUS Suffr. Long Pond, July 16. It feeds on the leaves of bayberry and blueberry.
T. CERINUS LeC. Bar Harbor (Moore).

ADOXUS Kirby

A. OBSCURUS Linn. S. W. Harbor; Long Pond, July 19–Aug. 21.

PARIA LeConte

P. CANELLUS var. QUADRIGUTTATA LeC. Long Pond, June 26.

LEPTINOTARSA Stål

L. DECEMLINEATA Say. Potato beetle. Common, June 22–July 29.

CALLIGRAPHA Erichson

C. ELEGANS Oliv. Jordan Pond; Bar Harbor; Witch Hole Pond, June 10–Aug. 6. It feeds on Bidens.

C. SCALARIS LeC. Common, June 10–Sept. 2. It feeds on the leaves of elm and alder.

C. PHILADELPHICA Linn. Common, June 9–Sept. 8. It feeds on Spiraea and alder.

C. PHILADELPHICA var. SPIREAE Say. 'Mt. Desert,' July (McAtee).

C. BIGSBYANA Kby. Salisbury Cove, July 15. It feeds on willow.

GASTROIDEA Hope

G. POLYGONI Linn. Bar Harbor, June 17. It feeds on Polygonum.

LIMA Megerle

L. LAPPONICA Linn. Long Pond; Jordan Pond; Bar Harbor, June 10–July 16. It feeds on willow.

L. TREMULAE Fab. Bar Harbor, July 10.

PHYLLODECTA Kirby

P. VULGATISSIMA Linn. Eagle Lake; Seal Harbor (Prof. Stowell), July 18–Aug. 15. It feeds on willow and poplar.

TRIRHABDA LeConte

T. VIRGATA LeC. Common, July 21–Sept. 6. It feeds on goldenrod (Solidago).

GALERUCELLA Crotch

G. CAVICOLLIS LeC. Long Pond; S. W. Harbor, June 16–July 27. It feeds on the leaves of cherry.

G. NYMPHAEAE Linn. Mt. Desert, July (McAtee). It feeds on the leaves of the water lilies.

G. DECORA Say. S. W. Harbor, Bar Harbor, June 27–Aug. 18. It feeds on the leaves of willow.

G. ALNI Fall. S. W. Harbor; Salisbury Cove, June 27–July 15. It feeds on the leaves of alder.

G. KALMIAE Fall. Long Pond; Bar Harbor, July 17–Aug. 18. It feeds on the leaves of laurel.

MONOXIA LeConte

M. PUNCTICOLLIS Say. Salt marsh at the Narrows, Aug. 3–Sept. 12.

DIABROTICA Chevrolat

D. VITTATA Fab. Striped squash beetle. Bar Harbor; Long Pond, June 19–Sept. 7. It feeds on the leaves of squash, cucumber, etc.

LUPERODES Motschulsky

L. MERACA Say. Long Pond; Eagle Lake; Bar Harbor, June 27–July 22. It feeds on the wild rose.

OEDIONYCHIS Latreille

OE. SUBVITTATA Horn. Common, June 27–Sept. 11.

DISONYCHA Chevrolat

D. QUINQUEVITTATA Say. Bar Harbor, Sept. 13.

HALTICA Geoffroy

H. ROSAE Woods. S. W. Harbor, July 11. It feeds on the wild rose.

H. IGNITA Ill. Bar Harbor, June 13.

CHALCOIDES Foudras

C. HELXINES Linn. Salisbury Cove; Bar Harbor, July 14–24. It feeds on willow and poplar.

EPITRIX Foudras

E. CUCUMERIS Harr. 'Cucumber flea-beetle.' Bar Harbor, Sept. 9. It feeds on the leaves of cucumber, potato, etc.

SYSTENA Clark

S. PALLICORNIS Schiff. Green Mt., Aug. 17. It feeds on Polygonum.

LONGITARSUS Latreille

L. MELANURUS Melsh.? Bar Harbor, Aug. 20.

PHYLLOTRETA Foudras

P. SINUATA Steph. Bar Harbor, July 24.

P. ROBUSTA LeC. Bar Harbor, July 24.

PSYLLIODES Latreille

P. PUNCTULATA Melsh. S. W. Harbor, July 11. It feeds on the leaves of dock and rhubarb.

ANOPLITIS Chapuis

A. INAEQUALIS Web. Salisbury Cove; Echo Lake; Bar Harbor, July 12–Sept. 11.

CHALEPUS Thunberg (*Odontota* auct.)

C. DORSALIS Thunb. Bar Harbor. The larva mines the leaves of the locust (Robinia).

MICRORHOPALA Baly

M. XERENE Newm. Bar Harbor, July 27. The larva mines the leaves of goldenrod (Solidago).

M. EXCAVATA Oliv. Common, July 11–Sept. 6.

CHELYMORPHA Bohemau

C. CASSIDEA Fab. (*C. argus* Licht.). Salisbury Cove, July 14 and Aug. 5 (Sanford). It feeds on the morning glory. *Convolvulus sepium* var. *americanus*. The beetles were all reddish brown in July and light yellow in August.

CHIRIDA Chapuis (*Coptocycla* auct.)

C. GUTTATA Oliv. Salisbury Cove, July 14 and Aug. 7. It also feeds on the morning glory. Some specimens were reddish brown in color, resembling *Metriona purpurata* Say.

PLATYSTOMIDAE (*Anthribidae*)

EURYMYCTOR LeConte

E. FASCIATUS Oliv. S. W. Harbor, June 21.

ALLANDRUS LeConte

A. BREVICORNIS Frost. S. W. Harbor, July 19.

CURCULIONIDAE. Weevils or snout-beetles

AULETES Schönherr

A. ALBOVESTITA Blatch. Green Mt.; Salisbury Cove, Aug. 11–17.

A. TENUIPES LeC. Salisbury Cove, July 15.

RHYNCHITES Herbst

R. CYANELLUS LeC. Long Pond, July 16.

ATTELABUS Linnaeus. Leaf-rolling weevils

A. RHOIS Boh. Common, June 21–July 16. The beetles make compact, cylindrical rolls of the leaves of the alder, depositing a single egg in each; the larva feeds on the interior portion of the roll and when full-grown leaves it and enters the ground to pupate.

A. BIPUSTULATA Fab. Bar Harbor, June 16. This species rolls the leaves of the oak.

APION Herbst

A. PENNSYLVANICUM Boh. Narrows, Aug. 13.

A. WALSHI Sm. S. W. Harbor; Bar Harbor; Long Pond, July 15–Sept. 7.

POLYDRUSUS Germar

P. IMPRESSIFRONS Gyll. Bar Harbor, June 11–Aug. 10.

HORMORUS Horn

H. UNDULATUS Uhler. Seal Harbor, Aug. 9 (Stowell).

SCIAPHILUS Schönherr

S. MURICATUS Fab. Common, June 11–Sept. 10.

BARYNOTUS Germar

B. SCHOENHERRI Zett. S. W. Harbor, June 24; Seal Harbor, Aug. 9 (Stowell).

BARYPEITHES Jacquelin-Duval

B. PELLUCIDUS Boh. Bar Harbor, June 16–22 (Moore).

BRACHYRHINUS Latreille (*Otiorhynchus* Germar)

B. SULCATUS Fab. N. E. Harbor (Minot); Witch Hole Pond; Seal Harbor (Stowell), July 26.

B. OVATUS Linn. Strawberry-root weevil. Bar Harbor (Moore); Long Pond, June 27. The larva griddles the crown of strawberry plants.

SITONA Germar

S. FLAVESCENS Marsh. Salisbury Cove, July 15.

S. TIBIALIS Hbst. Bar Harbor; Salisbury Cove, June 13–July 15.

S. HISPIDULUS Germ. Bar Harbor, Sept. 11.

HYPERODES Jekel (*Macrops* Kirby)

H. DISTINCTUS Dietz.? Pretty Marsh, June 20.

H. SPARSUS Say. Newport Cove, July 11.

PISSODES Germar

P. STROBI Peck. White-pine weevil. Bar Harbor, Aug. The larva kills the leading shoot of the white pine and sometimes spruce, causing the tree to become more or less deformed.

P. AFFINIS Rand. Salisbury Cove; Bar Harbor, June 9–July 29. Similar to the above species, but larger.

HYLOBIUS Germar

H. CONFUSUS Kby. Salisbury Cove, July 14. Infests pine.

HYPOMOLYX LeConte

H. PICEUS De G. (*H. pineti* Fab.). 'Mt. Desert'; Ironbound Isl., Aug. (Blaney).

TYCHIUS Germar

T. PICIROSTRIS Fab. Bar Harbor; S. W. Harbor; Long Pond, June 20–27.

MAGDALIS Germar

M. HISPOIDES LeC. S. W. Harbor, July 11.

BALANINUS Germar

B. NASICUS Say. Salisbury Cove, July 18. From red oak and infesting the acorns.

TACHYPTERELLUS Fall and Cockerell

T. QUADRIGIBBUS Say. 'Apple Curculio.' Bar Harbor, June 17. Infests both the fruit of the apple and thorn.

ANTHONOMUS Germar

A. SCUTELLATUS Gyll. Long Pond; Salisbury Cove; Bar Harbor, June 11–July 25.

A. PROFUNDUS LeC. Eagle Lake, July 18. Frequents the huckleberry.

A. CORVULUS LeC. S. W. Harbor, July 13.

A. SIGNATUS Say. 'Strawberry weevil.' Echo Lake; Salisbury Cove, June 27–July 15. Destroys the flower-buds of the strawberry.

A. SUBFASCIATUS LeC. Bar Harbor; S. W. Harbor, Aug. 10–30.

PSEUDOANTHONOMUS Dietz

P. CRATAEGI Walsh. S. W. Harbor, July 13.

ORCHESTES Illiger

O. NIGER Horn. Salisbury Cove, July 15.

O. PALLIDICORNIS Say. S. W. Harbor; Salisbury Cove; Bar Harbor, July 15–Sept. 9.

MIARUS Stephens

M. HISPIDULUS LeC. Salisbury Cove, July 22.

ACOPTUS LeConte

A. SUTURALIS LeC. S. W. Harbor, July 11.

AULEUTES Dietz

A. NEBULOSUS LeC. S. W. Harbor; Salisbury Cove, July 13–15.

CEUTORHYNCHUS Germar

C. CYANIPENNIS Germ. Bar Harbor, July 19.

C. SEPTENTRIONALIS Gyll. Bar Harbor, July 19. On 'hedge mustard' (*Sisymbrium officinale*).

PELENOMUS Thomson

P. SULCICOLLIS Fab. N. E. Harbor, July 26 (Minot). Frequents Polygonum.

RHINONCUS Schönherr

R. PYRRHOPUS Boh. Bar Harbor, July 19–24. Feeds on Rumex.

CRYPTORHYNCHUS Illiger

C. LAPATHI Linn. 'Willow Borer.' Seal Harbor, Aug. (Stowell). Introduced from Europe and injurious to willows.

SPHENOPHORUS Schönherr

S. COSTIPENNIS Horn. Meadow. Salisbury Cove, July 14.

SCOLYTIDAE. Bark beetles

POLYGRAPHUS Erichson

P. RUFIPENNIS Kby. Spruce bark-beetle. N. E. Harbor; S. W. Harbor, June. Infests dying or felled spruce.

GNATHOTRICHUS Eichhoff

E. MATERIARIUS Fitch. 'Pine wood-stainer.' Bar Harbor, June 16. Excavates galleries in the sapwood and heartwood of dying or recently felled pine and spruce.

PITYOPHTHORUS Eichhoff

P. PULICARIUS Zimm. 'Mt. Desert Island, Aug. 19, 1919, from white pine twigs' (M. W. Blackman).

P. BIOVALIS Blackman. 'Mt. Desert Island, Aug. 19, 1919, from white pine twigs' (M. W. Blackman).

PITYOGENES Bedel

P. HOPKINSI Sw. Bar Harbor, June 7.

IPS De Geer (*Tomicus* Latreille)

I. PINI Say. Pine bark-beetle. Wood Lake, Aug. 8 (Sanford).

ORTHOTOMICUS Ferrari

O. CAELATUS Eich. Wood Lake, Aug. 8 (Sanford). Infests pine and spruce.

DRYOCOETUS Eichhoff

D. AMERICANUS Hopk. Long Pond, July 16.

Order HYMENOPTERA

SYMPHYTA. Sawflies and horn-tails

PAMPHILIDAE. Leaf-rolling sawflies

ITYCORSIA Konow

I. PULLATA Cress. N. E. Harbor, Aug. 10 (Minot).

CEPHALEIA Panzer

C. n.sp. Salisbury Cove, July 12.

ANOPLOLYDA Costa

A. PALLIMACULATA Nort. S. W. Harbor, July 15.

A. RUFOFASCIATA Nort. Newport Cove; Great Head, July 11.

TENTHREDINIDAE. Typical sawflies

NEODIPRION Rohwer

N. ABBOTTI Leach. 'Mt. Desert, Aug., 1872' (Cora H. Clarke). The larva feeds on white pine.

N. ABIETIS Harr. N. E. Harbor, Aug. 11 (Minot). The larva feeds on spruce, fir, and pine.

HEMITAXONUS Ashmead

H. DUBITATUS Nort. Bar Harbor, June 15. The larva feeds on the sensitive fern (*Onoclea sensibilis*).

H. ALBIDOPICTUS Nort. Echo Lake, June 17.

TAXONUS Hartig

T. NIGRISOMUS Nort. S. W. Harbor, July 11. The larva feeds on dock (Rumex).

T. UNICINCTUS Nort. Green Mt.; Bar Harbor; Echo Lake, June 15–July 25.

EMPRIA Le Peletier

E. sp. Bar Harbor, June 13.

EPITAXONUS MacGillivray

E. ALBIDOPICTUS Nort. Echo Lake; Eagle Lake, June 17–July 18.

EMPHYTINA Rohwer

E. VANDUZEEI Roh. Jordan Pond, June 10.

EMPHYTUS Klug

E. BASALIS Klug. Salisbury Cove, July 25.

PARATAXONUS MacGillivray

P. MULTICOLOR Nort. Echo Lake; Seal Cove; S. W. Harbor, June 20–July 17. The larva feeds on white and yellow birch.

STRONGYLOGASTROIDEA Ashmead

S. APICALIS Say. Upper Hadlock Pond; Bar Harbor, S. W. Harbor, June 10–July 15. The larva feeds on Rubus.

S. PALLICORNIS Nort. Bar Harbor, July 24.

S. TERMINALIS Say. Echo Lake; S. W. Harbor, June 22–July 15.

DIMORPHOPTERYX Ashmead

D. MELANOGNATHUS Roh. Bar Harbor, Aug. 17.

D. PINGUIS Nort. Salisbury Cove, July 14. The larva feeds on birch, cherry, maple, etc.

D. ORONIS MacG. Salisbury Cove, July 25.

POLYSELANDRIA MacGillivray

P. FLAVIPES Nort. Jordan Pond; S. W. Harbor, June 10–July 15. The larva feeds on brake (Pteris aquilina).

STRONGYLOGASTER Dahlbom

S. TACITUS Say. Upper Hadlock Pond, June 10.

DOLERUS Jurine

D. sp. S. W. Harbor, June 21.

LODERUS Konow

L. ALBIFRONS Nort. Seal Cove, June 20.

PACHYPROTASIS Hartig

P. RAPAE Linn. Echo Lake, July 12.

LAGIUM Konow

L. ATROVIOLACEUM Nort. Bar Harbor; Upper Hadlock Pond, June 10.

NEOPUS MacGillivray

N. QUATUORDECIMPUNCTATUS Nort. Bar Harbor, June 8.

TENTHREDELLA Rohwer

T. ANGULIFERA Nort. Bar Harbor, June 9–July 21.

T. BASILARIS Prov. S. W. Harbor, June 20.

T. EXIMIA Nort. Salisbury Cove, Aug. 9.

T. GRANDIS Nort. Echo Lake, July 17.

T. LEUCOSTOMA Kby. Bar Harbor; Echo Lake; S. W. Harbor, June 9–July 20.

T. MELLINA Nort. Bar Harbor; Salisbury Cove, July 17–27.
T. MUTANS Nort. S. W. Harbor, July 15–18.
T. RUFOFECTA Nort. N. E. Harbor, July 1–8 (Minot).
T. RUFOFECTA var. MELLICOXA Prov. Long Pond; Bar Harbor, July 16–18.
T. SECUNDA MacG. S. W. Harbor; Echo Lake, July 13–17.
T. SEMIRUBRA Nort. Bar Harbor; Green Mt.; Salisbury Cove, June 9–Aug. 7.
T. SIGNATA Nort. Bar Harbor; S. W. Harbor, June 9–22.
T. TRICOLOR Nort. S. W. Harbor, July 15.
T. VERTICALIS Say. S. W. Harbor; Echo Lake; Bar Harbor, June 21–July 26.
T. XANTHA Nort. Seal Cove, July 10.

MACROPHYA Dahlbom

M. FASCIALIS Nort. S. W. Harbor; Long Pond, June 25–July 16. The larva feeds on elder.
M. FLAVICOXA Nort. Bar Harbor; S. W. Harbor, June 9–July 15.
M. INCERTA Nort. Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 10.
M. NIGRA Nort. Echo Lake, July 12.
M. TRISYLLABA Nort. Common, June 11–July 18. The larva feeds on elder.
M. VARIA Nort. Bar Harbor; Long Pond; S. W. Harbor, June 11–July 26.
M. ZONALIS Nort. S. W. Harbor; Long Pond; N. E. Harbor, July 13–26.

TENTHREDO Linnaeus (*Allantus* Jurine)

T. BASILARIS Say. Common, July 10–Sept. 7.

HEMICHROA Stephens

H. AMERICANA Prov. Seal Cove, June 20 (Sanford).

PRISTIPHORA Latreille

P. BIVITTATA Nort. S. W. Harbor, July 13. The larva feeds on Spiraea.
P. MURTFELDTIAE Marl. Echo Lake; S. W. Harbor, June 21–July 10.
P. sp. near PALLICOXA Roh. S. W. Harbor, July 29.

PACHYNEMATUS Konow

P. CORNIGERA Nort. Echo Lake; Seal Cove; Bar Harbor, June 20–Aug. 18.

CROESUS Leach

C. LATITARSUS Nort. Bar Harbor; Long Pond; Narrows, June 15–Aug. 13. The larva feeds on birch.

TRICHIOCAMPUS Hartig

T. IRREGULARIS Dyar. Echo Lake, June 17–July 17.

PTERONIDEA Rohwer

P. MENDICAS Walsh. S. W. Harbor, Sept. 5 (Alexander).

P. SIMILARIS Nort. S. W. Harbor, July 11.

P. TRICOLOR Marl. Bar Harbor, July 27.

PONTANIA Costa

P. POMUM Walsh. Willow apple gall. Bar Harbor; Salisbury Cove (Sanford). The larvae form galls on the leaves of willow.

P. PISUM Walsh. S. W. Harbor, July 11. The larvae form subsphaerical galls on the under side of the leaves of willow.

P. sp. S. W. Harbor, July 11.

CRYPTOCAMPUS Hartig (*Euura* Newman)

C. OVUM Walsh. Willow egg gall. Echo Lake, July 12. The larvae form egg-shaped galls on the twigs of willow.

TOMOSTETHUS Konow

T. BARDUS Say. Bar Harbor, June 7. The larva feeds on ash.

BLENNOCAMPA Hartig

B. sp. Bar Harbor, July 24.

ARGIDAE

ARGE Schrank (*Hylotoma* Latreille)

A. CLAVICORNIS Fab. Common, July 17–Aug. 19. The larva feeds on willow.

A. MACLEAYI Leach. Bar Harbor; Green Mt.; N. E. Harbor, June 13–Aug. 23. The larva feeds on wild cherry, birch, mountain ash, etc.

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A. PECTORALIS Leach. Echo Lake; Salisbury Cove, June 27–July 13. The larva feeds on birch.

A. SCAPULARIS Klug. Salisbury Cove, July 15. The larva feeds on white birch and elm.

A. sp. Salisbury Cove, July 12.

STERICTIPHORA Billberg

S. EBENA Nort. Jordan Pond, June 10.

CIMBICIDAE

CIMBEX Olivier

C. AMERICANA Leach. American sawfly or 'willow worm.' Salisbury Cove; Bar Harbor, July 13–19. The larva feeds on willow, poplar, elm, etc. The large white larva is conspicuous on willow.

C. AMERICANA var. ALBA Nort. Seal Cove (Sanford); Salisbury Cove, June 20–July 24.

C. AMERICANA var. LAPORTEI Le Pel. Salisbury Cove, July 24.

TRICHISOMA Leach

T. TRIANGULUM Kby. Newport Cove; Great Head; Salisbury Cove, July 11–23. The larva feeds on willow, cherry, alder, etc.

CEPHIDAE. Stem sawflies

JANUS Stephens

J. BIMACULATA Nort. S. W. Harbor, July 10.

XIPHYDRIIDAE

XIPHYDRIA Latreille

X. TIBIALIS Say. Salisbury Cove, July 15 (Olsen).

SIRICIDAE. Horn-tails

SIREX Linnaeus

S. JUVENCUS var. CYANEUS Fab. Ironbound Isl., July (Blaney).

UROCERUS Geoffroy

U. ALBICORNIS Fab. Bar Harbor, July 24. The larva bores in spruce and fir.

U. CRESSONI Nort. S. W. Harbor, July 29.

BRACONIDAE

OPIUS Wesmael

O. PROVANCHERI D. T. Green Mt., July 25.

APANTELES Foerster

A. ACRONYCTAE Riley. Salisbury Cove, July 15. Parasitic on Acronycta sp.

A. ARISTOTELIAE Vier. S. W. Harbor; Salisbury Cove, July 14, 15. Parasitic on *Gelechia trialbamaculella.*

A. CACOECIAE Riley. S. W. Harbor; Bar Harbor, July 13–26. Parasitic on Cacoecia.

A. CONANCHETORUM Vier. Bar Harbor, July 24.

A. EDWARDSII Riley. S. W. Harbor; Green Mt., July 20–28. Parasitic on *Vanessa atalanta.*

A. EPINOTIAE Vier. Witch Hole Pond; S. W. Harbor, Aug. 18–Sept. 6. Parasitic on Euarmonia.

A. FISKEI Vier. Salisbury Cove, July 15.

A. GRIFFINI Vier. S. W. Harbor, June 27. Parasitic on 'cutworms,' Feltia sp.

A. LONGICORNIS Prov. S. W. Harbor; Long Pond, July 10–19.

A. MELANOPUS Vier. Echo Lake; Salisbury Cove, June 17–July 18.

A. MIANTONOMOI Vier. S. W. Harbor, July 14.

A. ORNIGIS Weed. Green Mt., Aug. 17. Parasitic on Lithocolletis sp.

A. ORBENAE Forbes. Long Pond, July 10. Parasitic on Evergestis sp.

A. POLYCHROSIDIS Vier. Common, July 18–25. Parasitic on *Cocoecia rosaceana.*

A. ROHWERI Mues. S. W. Harbor, June 21. Parasitic on Gracilaria.

A. TISCHERIAE Vier. S. W. Harbor, Aug. 11. Parasitic on Tischeria.

A. XYLINUS Say. Common, June 10–Aug. 16. Parasitic on one of the 'cutworms,' *Agrotis c-nigrum.*

MICROGASTER Latreille

M. BREVICAUDA Prov. Salisbury Cove; S. W. Harbor, July 14, 19.

M. EPAGOGES Gahan. Salisbury Cove, July 18. Parasitic on *Epagoe sulfureana.*

M. FACETOSA Weed. Common, July 10–20. Parasitic on the clover-moth *Plathypena scabra.*

M. MELLIGASTER Prov. (*rubricoxa* Prov.). Common on the marshes at the Narrows, July 27.

MICROPLITIS Foerster

M. ALASKENSIS Ashm. S. W. Harbor; Salisbury Cove, July 14–18. Parasitic on Hadena and Plusia.

M. CERATOMIAE Riley. S. W. Harbor; Bar Harbor, July 20–24. Parasitic on the larvae of Sphingidae, Ceratomia, Paonias, and Sphinx.

M. FELTIAE Mues. S. W. Harbor, July 19. Parasitic on 'cut-worms' of the genus Feltia.

M. n.sp. (Muesebeck). Bar Harbor, July 24.

MICROBRACON Ashmead

M. APICATUS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, July 18–30.

M. GELECHIAE Ashm. Bar Harbor, Aug. 18. Parasitic on various species of Gelechia and other Microlepidoptera.

M. LUTUS Prov. Bar Harbor, July 24.

M. MELANASPIS Ashm. S. W. Harbor, July 13.

M. MEROMYZAE Gahan. S. W. Harbor; Long Pond, July 13–16. Parasitic on *Meromyza americana.*

M. NANUS Prov. S. W. Harbor, June 27.

M. NITIDUS Prov. S. W. Harbor, July 13.

M. NUFERUS Cress. Salisbury Cove, July 25.

M. PINI Mues. Long Pond, June 17. Parasitic on the white pine weevil *Pissodes strobi.*

M. PODUNKORUM Vier. Bar Harbor, Aug. 15.

M. PYGMAEUS Prov. S. W. Harbor, Sept. 6. Parasitic on Microlepidoptera of the genus Coleophora.

M. TENUICEPS Mues. (Proc. U. S. Nat. Museum, vol. 67, art. 8, p. 46, 1925). Bar Harbor; Salisbury Cove; Narrows, etc. July 10–25. Parasitic on weevils.

M. n.sp. (Muesebeck). Bar Harbor, Aug. 16.

COELOIDES Wesmael

C. sp. Seal Cove Brook, Sept. 8.

METEORUS Haliday

M. COMMUNIS Cress. S. W. Harbor, July 11. Parasitic on Hadena and other moths.

M. DIMIDIATUS Cress. N. E. Harbor; Eagle Lake, July 11–18. Parasitic on *Desmia funeralis*.

M. HYPHANTRIAE Riley. S. W. Harbor; Bar Harbor, June 21–July 26. Parasitic on fall webworm, American tent caterpillar, tussock moth, etc.

M. PALLITARSIS Cress. Long Pond, Sept. 7.

N. TAURICORNIS Prov. Bar Harbor, June 13–Aug. 10.

M. VULGARIS Cress. Bar Harbor; S. W. Harbor, June 13–Sept. 6. Parasitic on various species of 'cutworms,' *Agrotis ypsilon, Feltia subgothica, Lycophotia saucia,* etc.

MACROCENTRUS Curtis

M. sp. Bar Harbor, June 7; Salisbury Cove, July 19.

BASSUS Fabricius

B. BICOLOR Prov. Bar Harbor; Salisbury Cove, Aug. 13–18.

B. CINCTUS Cress. Bar Harbor, Aug. 18.

B. PERFORATUS Prov. Bar Harbor, Aug. 14.

B. TIBIATOR Prov. Green Mt., Aug. 17.

AGATHIS Latreille

A. FEMORATOR Prov. Bar Harbor; Green Mt., Aug. 10–17.

ATANYCOLUS Foerster

A. sp. Bar Harbor, Aug. 18–24.

IPHIAULAX Foerster

I. AUGUSTUS Vier. S. W. Harbor, July 20.

CYANOPTERUS Haliday

C. n.sp. Bar Harbor, July 29.

Ascogaster Wesmael

A. carpocapsae Vier. S. W. Harbor, July 13.

Chelonus Jurine

C. basilaris Say. Echo Lake, July 17.
C. fissus Prov. Narrows, July 27.
C. sassacus Vier. Narrows; Salisbury Cove, July 25–27.
C. sericeus Say. Bar Harbor; Salisbury Cove, July 24–Aug. 16.
C. sp. Salisbury Cove, Aug. 11.

Rhogas Nees (*Aleiodes* Wesmael)

R. canadensis Cress. S. W. Harbor; Echo Lake; Bar Harbor, July 13–22.
R. intermedius Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, June 27–July 18.
R. terminalis Cress. Bar Harbor, June 13; Salisbury Cove, Sept. 15 (Dahlgren).

Zele Curtis

Z. sp. Bar Harbor, June 7; S. W. Harbor, July 15.

Helcon Nees. (*Gymnoecelus* Foerster)

H. pedalis Cress. Bar Harbor, July 26.

Eubadizon Nees

E. sp. Bar Harbor, Aug. 15.

Coelinidea Viereck

C. sp. Echo Lake, June 17.
C. sp. S. W. Harbor, Aug. 23.

Dacnusa Haliday

D. sp. S. W. Harbor, Aug. 14.

Spathius Nees

S. sp. Echo Lake; S. W. Harbor; Bar Harbor, June 15–July 30.

Ichneumonidae

Cymodusa Holmgren

C. distincta Cress. S. W. Harbor, July 13.

SAGARITIS Holmgren

S. PATSUIKETORUM Vier. Bar Harbor, July 30.
S. PROVANCHERI D. T. Salisbury Cove, July 23–Aug. 24.

OLESICAMPE Foerster

O. sp. Echo Lake, July 17.

ANGITIA Holmgren

A. MACER Cress. Bar Harbor, Sept. 10.
A. sp. S. W. Harbor; Echo Lake, June 17–22.

HYPOSOTER Foerster

H. ANNULIPES Cress. Bar Harbor; Salisbury Cove; S. W. Harbor, June 11–Sept. 10. Parasitic on Mamestra.

VIERECKIANA Strand

V. ASSITA Nort. Bar Harbor; Echo Lake, June 11–27.
V. VILLOSA Nort. Salisbury Cove, July 15.
V. VITTICOLLIS Nort. N. E. Harbor (Minot); Witch Hole Pond, June 26–July 30.

CAMPOPLEX Gravenhorst

C. RUFICOXA Prov. (*Limneria ruficoxa* Prov.). Narrows, June 26–Aug. 13.

CAMPOPLIGIDEA Viereck

C. VARIABILIS Frankl. S. W. Harbor, July 20.

HOLOCREMUS Foerster

H. sp. S. W. Harbor, July 15.

APOLIMA Foerster

A. sp. Bar Harbor, July 10.

NEMIOBLASTUS Thomson

N. sp. Bar Harbor; Green Mt., July 25–Aug. 18.

PLECTISCUS Gravenhorst

P. PARVUS Cush. Echo Lake, July 17.
P. n.sp. Bar Harbor, Aug. 10.

APERILEPTUS Foerster

A. DELICATUS Cush. Echo Lake; Long Pond, July 11–17.

CREMASTUS Gravenhorst

C. FORBESII Weed. S. W. Harbor, July 29.
C. sp. Salisbury Cove, July 25.

CATASTENUS Foerster

C. sp. Echo Lake, July 17.

PROCLITUS Foerster

P. LONGICAUDUS Prov. Bar Harbor; Echo Lake; S. W. Harbor, June 13–July 29.
P. MELLIPES Prov. Echo Lake; Long Pond, July 12–17.
P. ROYI Prov. Bar Harbor, Aug. 10.

EXETASTES Gravenhorst

E. NERVULUS Say. S. W. Harbor; Eagle Lake; Bar Harbor, June 21–July 19.
E. RUFOFEMORATUS Prov. S. W. Harbor; Narrows, July 15–Aug. 13.
E. SUAVEOLENS Walsh. Common, July 14–27.

CRATOPHION Thomson

C. AMERICANA Harrgtn. S. W. Harbor, Sept. 6.

XENOSCHESIS Foerster

X. SLOSSONAE Cush. S. W. Harbor, July 10.
X. n.sp. Echo Lake, July 19.

MESOCHORUS Gravenhorst

M. BASALIS Cress. Bar Harbor; Long Pond; Seal Cove, June 13–Sept. 8.
M. LUTEIPES Cress.? Eagle Lake; Bar Harbor, July 18–Aug. 18.
M. POLITUS Prov. S. W. Harbor; Bar Harbor, July 30–Aug. 10.

LEPTOPYGUS Foerster

L. sp. Long Pond; Salisbury Cove, Aug. 21.

BANCHUS Fabricius

B. BOREALIS Cress. Bar Harbor; N. E. Harbor, June 7–July 8.
B. PALLESCENS Prov. Bar Harbor, July 10.

PANISCUS Gravenhorst

P. GEMINATUS Say. Bar Harbor; Echo Lake; N. E. Harbor, June 7–July 20.

ALEXETER Foerster

A. ALBOTARSATUS Prov. S. W. Harbor, June 16–July 23.
A. ANTENNATUS Prov. Echo Lake, July 12.

OPHALTES Holmgren

O. GLAUCOPTERUS var. FLAVIPENNIS Prov. Common, July 14–Sept. 24.

PARANOMALON Viereck

P. BASILICON Davis. Bar Harbor, June 13–21.
P. LATERALIS Brull. S. W. Harbor; Narrows, June 25–July 17.
P. SEMIRUFUS Nort. S. W. Harbor, July 18.

LABRORYCHUS Foerster

L. BOREALIS Ashm. Echo Lake; S. W. Harbor; Salisbury Cove, June 17–Aug. 11.
L. PRISMATICUS Nort. S. W. Harbor, July 31. Parasitic on *Archips cerassivorana.*

APHANISTES Foerster

A. HYALINUS Nort. Bar Harbor; Salisbury Cove; S. W. Harbor, June 8–July 28.

EULIMNERIA Schmiedeknecht

E. sp. Bar Harbor, July 13.

ZALEPTOPYGUS Viereck

Z. n.sp. Narrows, Aug. 13.

THERION Curtis

T. FUSCIPENNIS Nort. Duck Brook, July 30.
T. OCCIDENTALIS Cress. Echo Lake; Salisbury Cove, June 17–Aug. 11.

THYREODON Brullé

T. BRULLEI Vier. Echo Lake; Bar Harbor; S. W. Harbor, July 17–Aug. 24.

Ophion Fabricius

O. bifoveolatus Brull. Narrows; Bar Harbor, June 9–17.

O. bilineatus Say. Bar Harbor; Salisbury Cove, July 25–Aug. 16. Parasitic on Feltia and other moths.

Eniscospilus Stephens

E. purgatus Say. Echo Lake, July 12. Parasitic on Feltia and other moths.

Eremotylus Foerster

E. arcuatus Felt. N. E. Harbor, Aug. 23 (Minot).

Stiphrosomus Foerster

S. fucatus Cress. S. W. Harbor; Jordan Pond, June 10–July 25.

Diaborus Foerster

D. ornatus (Walsh) Davis. Long Pond, Aug. 21.

Dialges Foerster

D. frontalis Davis. S. W. Harbor, June 25.

D. frontalis var. tricolor Davis. Salisbury Cove, July 14.

Tryphon Gravenhorst

T. communis Cress. Common, June 21–July 16.

T. seminiger Cress. Salisbury Cove; Long Pond, July 14–17.

Cosmoconus Foerster

C. canadensis Prov. Salisbury Cove; Green Mt.; N. E. Harbor, July 19–Aug. 23.

Scopesis Foerster

S. laetus Prov. Common, July 22–Sept. 6.

Polyblastus Hartig

P. fulvilinealis Hall. Witch Hole Pond, Aug. 18.

P. pedalis Cress. Echo Lake; S. W. Harbor, June 17–July 20.

P. tibialis Cress. S. W. Harbor, July 20.

Monoblastus Hartig

M. obscurellus Cress. Bar Harbor, June 22.

M. varifrons Cress. Pretty Marsh; Salisbury Cove; Bar Harbor, June 20–July 14.

HADRODACTYLUS Foerster

H. INCEPTUS Cress. Seal Cove, June 20.
H. ELONGATUS Cress.? Echo Lake, July 12.

MESOLEPTIDEA Viereck (*Mesoleptus* auct.)

M. DECENS Cress. S. W. Harbor, June 16–July 29.
M. RUFIGASTRA Prov. S. W. Harbor; Bar Harbor, June 13–July 13.

CALLIDIOTES Foerster

C. ALBOPLEURALIS Prov. Long Pond, Sept. 7.

NOTOPYGUS Holmgren

N. sp. N. E. Harbor, Aug. 10 (Minot).

ECLYTUS Holmgren

E. PLEURALIS Prov. Echo Lake, July 18.
E. PERENNIS Davis. Seal Cove, June 20.

LAPHYROSCOPUS Foerster

L. sp. Echo Lake, June 17.

MESOLEIUS Holmgren

M. STRIATUS Davis. Long Pond, Sept. 7.
M. SUBMARGINATUS Cress. Bar Harbor; S. W. Harbor, June 22–July 20.

SPUDAEA Foerster

S. sp. Bar Harbor, Aug. 18.

SPANOTECNUS Foerster

S. DECOLORATUS Cress. Long Pond, July 16.

SYNOMELIX Foerster

S. sp. S. W. Harbor, July 10.

ERROMENUS Holmgren

E. DIMIDIATUS Cress. Narrows; Bar Harbor; Salisbury Cove, June 9–July 23.
E. MARGINATUS Prov. S. W. Harbor, June 23.

EUCEROS Gravenhorst

E. COUPERII Cress. Bar Harbor; Echo Lake, July 10–18.
E. MEDIALIS Cress. S. W. Harbor, June 21.

Ctenopelma Holmgren

C. n.sp. near nigricorne Prov. Bar Harbor, June 14.

Eurycroctus Holmgren

E. petiolatus Davis. Long Pond, Sept. 7.

Scopiorus Foerster

S. analis Cress. S. W. Harbor, July 24.
S. occidentalis Cress. Long Pond, July 12–16.
S. subcrassus Cress. S. W. Harbor, June 25.

Cteniscus Haliday (*Exenterus* Hartig)

C. orbitalis Cress. Echo Lake; S. W. Harbor, June 12–July 17.

Syrphoctonus Foerster

S. agilis Cress. Salisbury Cove; Bar Harbor, Aug. 7–10.

Promethes Foerster

P. costalis Prov. Bar Harbor, June 7–Aug. 10.
P. elongatus Prov. S. W. Harbor; Narrows, July 13–Aug. 13.

Diplazon Nees

D. concinnus Cress. Bar Harbor; Echo Lake, June 7–17.
D. laetatorius Fab. Common, July 10–Aug. 13.
D. pulchripes Prov. Bar Harbor; Salisbury Cove, June 22–July 14.
D. scutellaris Cress. Salisbury Cove, July 24.
D. n.sp. Long Pond, Aug. 21.

Homotropus Foerster

H. albopictus Davis. Bar Harbor, July 26.
H. humeralis Prov. Echo Lake, June 17.

Triclistus Foerster

T. curvator Fab. S. W. Harbor, July 20.

Chorinaeus Holmgren

C. carinatus Cress. Bar Harbor; Salisbury Cove, July 10–25.
C. n.sp. Eagle Lake, July 18.

Periope Curtis

P. aethiops Cress. S. W. Harbor, Sept. 8.

EXOCHUS Gravenhorst

E. DORSALIS Cress. N. E. Harbor, Aug. 10 (Minot).
E. LAEVIS Cress. Salisbury Cove, July 13.
E. n.sp. S. W. Harbor, June 21.

ZOOTREPHES Foerster

Z. SAGINATUS Prov. S. W. Harbor, July 15.

ATMETUS Foerster

A. CARINATUS Prov. S. W. Harbor, July 13.
A. sp. N. E. Harbor, June 28 (Minot).

DELETER Foerster

D. UNDULATUS Davis. Bar Harbor, Aug. 10.

RHYSSA Gravenhorst

R. ALBOMACULATA Cress. Echo Lake; S. W. Harbor; Bar Harbor, July 17–Aug. 24.
R. LINEOLATA Kby. N. E. Harbor, Aug. 10 (Minot).
R. PERSUASORIA Linn. Bar Harbor, Aug. 10.

MEGARHYSSA Ashmead

M. NORTONI Cress. Echo Lake; Bar Harbor, June 27–July 21.

XORIDES Latreille (*Xylonomus* Gravenhorst)

X. HUMERALIS Say. Salisbury Cove, July 27.
X. STIGMAPTERUS Say. Salisbury Cove, June 9.

POEMENIA Holmgren

P. ALBIPES Cress. N. E. Harbor, July 12–Aug. 10 (Minot).
P. AMERICANA Cress. Salisbury Cove, July 24.

ODONTOMERUS Gravenhorst

O. AETHIOPS Cress. Bar Harbor, June 21.
O. CANADENSIS Prov. Echo Lake; Long Pond, June 26–July 12. Parasitic on Leptura, Dicerca and other wood-boring beetles.
O. MELLIPES Say. Bar Harbor, June 21–Sept. 11.

PHYTODIETUS Gravenhorst

P. ANNULATUS Prov. Common, July 15–Sept. 11.

PEZOPORUS Foerster

P. sp. S. W. Harbor, June 21.

Polysphincta Gravenhorst

P. burgessi Cress. Salisbury Cove, July 27.

P. slossonae Davis. Bar Harbor; S. W. Harbor; Echo Lake, June 13–July 17.

P. vicina Prov. Echo Lake, June 17.

Zaglyptus Foerster

Z. incompletus Cress. Bar Harbor, June 13–Sept. 9.

Glypta Gravenhorst

G. erratica Cress. Common, June 17–Sept. 8. Parasitic on *Polygonia comma.*

G. macra Cress. Salisbury Cove; S. W. Harbor; Narrows, July 10–Aug. 13.

G. rufofasciata Cress. Salisbury Cove, July 19.

G. varipes Cress. S. W. Harbor, July 22.

G. canadensis Cress. N. E. Harbor, June 29 (Minot).

Clistopyga Gravenhorst

C. canadensis Prov. S. W. Harbor, July 25.

Perithous Holmgren

P. pleuralis Cress. Salisbury Cove, July 19.

Ephialtes Schrank (*Pimpla* auct.)

E. aequalis Prov. Bar Harbor; S. W. Harbor, Aug. 10–23. Parasitic on the Tussock moth.

E. aquilonia Cress. Bar Harbor, June 8–Aug. 10.

E. pedalis Cress. Echo Lake; Salisbury Cove; N. E. Harbor, July 17–Sept. 24. Parasitic on the American tent and Forest tent caterpillars, Gypsy moth, etc.

E. tenuicornis Cress. Common, June 7–Sept. 11. Parasitic on Aegeria.

E. (Itoplectis) conquisitor Say. Bar Harbor; S. W. Harbor, July 13–Sept. 6. Parasitic on the American tent caterpillar, etc., etc.

Apechtis Foerster

A. ontario Cress. Bar Harbor, June 7–Aug. 10. Parasitic on the spruce bud worm.

A. picticornis Cress. Bar Harbor; N. E. Harbor (Minot), June 16–Aug. 10.

Iseropus Foerster

I. coelebs Walsh. Bar Harbor; S. W. Harbor, June 21–Sept. 6. Parasitic on the American tent and forest tent caterpillars, tussock moth, spruce bud worm, etc.

I. inquisitoriellus D. T. Bar Harbor; N. E. Harbor, June 13–July 15. Parasitic on the American tent caterpillar, Tussock moth, etc.

Tromatobia Foerster

T. rufopectus Cress. Bar Harbor, June 13. Parasitic on the eggs of spiders in the nest of the Epeiridae.

T. rufovariata Cress. N. E. Harbor; S. W. Harbor; Tremont, July 15–Aug. 23.

Delomerista Foerster

D. vovita Cress. Bar Harbor, Aug. 16.

MARINE BIOLOGICAL LABORATORY WOODS HOLE LIBRARY MASS.

Scambus Hartig

S. pterelas Say. Narrows, Aug. 13.

Epiurus Foerster

E. alboricta Cress. Bar Harbor, June 13.

E. sp. Salisbury Cove, July 15.

Theronia Holmgren

T. fulvescens Cress. Witch Hole Pond, Sept. 11.

Ichneumon Linnaeus (*Ephialtes* Grav.)

I. macer Cress. Salisbury Cove, Sept. 15 (Dahlgren).

I. mesocentrus Grav. N. E. Harbor (Minot); S. W. Harbor (Alexander), Aug. 23–Sept. 5.

I. tuberculatus Four. Bar Harbor; S. W. Harbor, Sept. 6–10.

Meniscus Schrödte

M. superbus Prov. Bar Harbor, June 9–22.

Lissonota Gravenhorst

L. accidentalis Cress. Green Mt., July 25.

L. americana Cress. S. W. Harbor, Sept. 6.

L. exilis Cress. S. W. Harbor, July 20.

L. FRIGIDA Cress. Narrows, July 27. Parasitic on a sawfly (*Nematus*).
L. NIGRIPES Prov. Echo Lake, July 17.
L. PARVA Cress. Bar Harbor; N. E. Harbor (Minot), July 20–Aug. 10.
L. PHILIPI Vier. Salisbury Cove, July 13–Aug. 9.
L. PLEURALIS Cress. Common, July 19–Sept. 6.
L. PUNCTATA Cress. Bar Harbor, Sept. 10–13.
L. RUBRICA Cress. Salisbury Cove, July 25.
L. RUFIPES Cress. S. W. Harbor, Sept. 6.
L. VARIA Cress. Salisbury Cove; N. E. Harbor; S. W. Harbor, July 25–Sept. 6.

ASPHRAGIS Foerster

A. MIRABILIS Cress. S. W. Harbor, July 13.

CYLLOCERIA Schrödte

C. ERRANS D. T. Common, July 18–Aug. 21.
C. SEXLINEATA Say. S. W. Harbor, July 20.

AROTES Gravenhorst

A. AMOENUS Cress. Echo Lake; Bar Harbor, June 17–July 22.
A. FORMOSUS Cress. Bar Harbor, July 22.
A. VICINUS Cress. Bar Harbor; Acadia Mt. (Alexander), July 26–Sept. 3.

COLEOCENTRUS Gravenhorst

C. RUFUS Prov. var. Seal Harbor (David Rockerfeller).
C. sp. N. E. Harbor, July 10 (Minot).

MESOTENUS Gravenhorst

M. ERYTHROGASTER Ashm. Bar Harbor, June 21–Sept. 13.

ACRORICNUS Ratzeburg

A. CLOUTIERI Prov. Bar Harbor; N. E. Harbor; S. W. Harbor, June 11–Aug. 10.

CHAERETYMMA Foerster

C. sp. Bar Harbor, June 8.

ITAMOPLEX Foerster

I. AMERICANUS Cress. S. W. Harbor; Green Mt., July 15–25.

CRYPTUS Fabricius

C. AMBLYTELARIUS Prov. Bar Harbor, June 21–July 26.
C. APICATUS Prov. Bar Harbor; Narrows, July 5–27.
C. ORNATUS Prov. Bar Harbor, Sept. 10.
C. PERSIMILIS Cress. Narrows, June 27.
C. VINCTUS Say. Bar Harbor; Salisbury Cove, June 15–July 19.

TRYCHOSIS Foerster

T. RUFOANNULATUS Prov. Salisbury Cove, July 24.

SPILOCRYPTUS Thomson

S. CANARSIAE Ashm. Bar Harbor, June 15–July 22.
S. CIMBICIVORUS Cush. S. W. Harbor, July 28. Parasitic on *Cimbex americana*.
S. EXILIS Prov. Bar Harbor; Eagle Lake; Echo Lake, June 11–Aug. 12.
S. LOPHYRI Nort. N. E. Harbor (Minot); Bar Harbor, June 7–July 16. Parasitic on the spruce sawfly, *Neodiprion abietis*.
S. NUNCIUS Say. Witch Hole Pond, Sept. 11. Parasitic on *Telea polyphemus* and other large moths.

CHRYSOPOCTONUS Cushman

C. RILEYI Ashm. S. W. Harbor, July 30.

HOPLOCRYPTUS Thomson

H. sp. N. E. Harbor, June 26 (Minot).

HEMITELES Gravenhorst

H. PALLIPENNIS Prov. Long Pond, July 16.
H. RUFICOXUS Prov. Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 15.
H. TENELLUS Say. Bar Harbor; Salisbury Cove; S. W. Harbor, June 7–Sept. 3.

GELIS Thunberg

G. BUCCULATRICIS Ashm. S. W. Harbor, July 13.
G. sp. Echo Lake, June 27.

STENOCRYPTUS Thomson

S. sp. S. W. Harbor, July 30.

PHYGADEUON Gravenhorst

P. ABDOMINALIS Prov. Narrows, June 9.
P. INFLATUS Prov. S. W. Harbor; Echo Lake; N. E. Harbor, July 11–Aug. 25.
P. OCCIDENTALIS Prov. Bar Harbor, July 24.
P. ORBITALIS Prov. Bar Harbor, June 7.
P. OVALIS Prov. S. W. Harbor, July 11–Aug. 21.
P. PUBESCENS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, June 8–July 30.
P. ROTUNDICEPS Prov. Echo Lake, July 17.
P. RUFICORNIS Prov. Salisbury Cove; Bar Harbor, June 22–July 27.
P. SUBSPINOSUS Prov. Bar Harbor, June 12.

GIRAUDIA Foerster

G. sp. S. W. Harbor, Sept. 8.

ERNOCTONA Foerster

E. sp. S. W. Harbor, July 13.

PLESIGNATHUS Foerster

P. AMERICANUS Cush. S. W. Harbor, June 27.
P. sp. Bar Harbor, June 22.

HOMELYS Foerster

H. sp. Salisbury Cove, July 25.

MICROCRYPTUS Thomson

M. sp. Salisbury Cove, June 9–July 24.

PLECTOCRYPTUS Thomson

P. CONTIGUUS Cress. Bar Harbor, June 22.
P. MAJOR Cress. S. W. Harbor, June 25.

STYLOCRYPTUS Thomson

S. PUBESCENS Prov. S. W. Harbor, July 24.
S. SUBCLAVATUS Say. Salisbury Cove, July 14.

ATRACTODES Gravenhorst

A. COMPRESSA Cress. Green Mt., Aug. 25.
A. sp. Bar Harbor, Sept. 10.

EXOLYTUS Holmgren

E. sp. S. W. Harbor, July 14.

PROSCUS Holmgren

P. sp. Salisbury Cove; Bar Harbor, July 24–Sept. 10.

PHAEOGENES Wesmael

P. ATER Cress. Bar Harbor; Salisbury Cove, June 13–July 27.
P. DECOLORATUS Cress. S. W. Harbor, July 15.
P. DISCUS Cress. Echo Lake; Bar Harbor, July 12–Aug. 10.
P. FUNGOR Nort. Bar Harbor; Salisbury Cove, July 27–Aug. 16. Parasitic on the spruce sawfly, *Neodiprion abietis*.
P. GASPESIANUS Prov. S. W. Harbor; Long Pond; Salisbury Cove, July 16–29.
P. HEBE Cress. S. W. Harbor; Salisbury Cove, July 14–Aug. 10.
P. HEBRUS Cress.? Echo Lake, July 12.

COLPOGNATHUS Wesmael

C. HELVUS Cress. N. E. Harbor, Aug. 10 (Minot).

DICAELOTUS Wesmael

D. sp. S. W. Harbor, Sept. 8.

ISCHNUS Gravenhorst

I. sp. Bar Harbor, June 8.

PLATYLABUS Wesmael

P. CANADENSIS Cress. Bar Harbor, June 21.
P. sp. near BIMEMBRIS Prov. Bar Harbor, July 13.
P. n.sp. Bar Harbor, July 29.

ORONOTUS Wesmael

O. sp. Bar Harbor, June 17.

HERPESTOMUS Wesmael

?H. HARIOLUS Cress. Salisbury Cove, July 22.
H. HEBRUS Cress. Salisbury Cove, July 18.

ANISOBAS Wesmael

A. NEARCTICUS Cush. S. W. Harbor, July 10.

AMBLYTELES Wesmael

A. ACERABUS Cress. Bar Harbor; S. W. Harbor; Narrows, July 11–Aug. 18.
A. AGNITUS Cress. N. E. Harbor, Aug. 11 (Minot).
A. ANNULIPES Cress. Bar Harbor; Sand Beach; S. W. Harbor, June 15–Aug. 10.
A. APERTUS Cress. Green Mt., Aug. 17.
A. ATROX Cress. Bar Harbor, June 9.
A. BIMEMBRIS Prov. Salisbury Cove; Green Mt., July 23–Aug. 17.
A. BIOCULATUS Cress. S. W. Harbor, July 28.
A. CAERULEUS Cress. N. E. Harbor (Minot); Echo Lake, Sept. 7. Parasitic on the tussock moth.
A. CANADENSIS Cress. Echo Lake; S. W. Harbor; Salisbury Cove, June 27–July 24.
A. CAUDATUS Prov. Bar Harbor, June 21.
A. CERULUS Prov. S. W. Harbor, Aug. 2 (Fernald).
A. CERVULUS Cress. Salisbury Cove, July 24.
A. CINCTICORNIS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–Aug. 15.
A. CINCTITARSIS Prov. Salisbury Cove, July 23.
A. COMES Cress. Bar Harbor, July 17.
A. CONFIRMATUS Cress. N. E. Harbor, July 23 (Minot).
A. CORVINUS Cress. Bar Harbor, June 22.
A. CREPERUS Cress. S. W. Harbor, July 15.
A. DETRITUS Brullé. Salisbury Cove, July 24.
A. DIVINCTOR Say. Salisbury Cove; Echo Lake, July 17–Sept. 7.
A. DUPLICATUS Cress. Bar Harbor, July 24.
A. EXTREMATIS Cress. S. W. Harbor, Aug. 14 (Fernald).
A. FERALIS Cress. Echo Lake, July 12.
A. FLAVICORNIS Cress. Sand Beach, July 11.
A. FRATERNUS Cress. Echo Lake; S. W. Harbor (Fernald), June 27–July 19.
A. FUNESTUS Cress. Bar Harbor, June 21.
A. GALENUS Cress. Salisbury Cove; S. W. Harbor, July 23–Sept. 6.

A. GERMANUS Cress. Bar Harbor; S. W. Harbor; Long Pond, June 7–Aug. 27.

A. GRANDIS Brullé. Bar Harbor; N. E. Harbor (Minot); S. W. Harbor, July 24–Sept. 6.

A. HOSPITUS Cress. S. W. Harbor, July 15.

A. INCONSTANS Cress. S. W. Harbor; Salisbury Cove, July 15–23.

A. INSTABILIS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, June 20–July 25. Parasitic on *Phyciodes tharos*.

A. LACHRYMANS Prov. S. W. Harbor, July 11–Aug. 3.

A. LAETUS Brullé. Common, July 17–Sept. 9.

A. LEVICULUS Cress. Salisbury Cove, July 14.

A. LUCTUS Cress. Common, June 13–July 24.

A. MALACUS Say. Salisbury Cove, July 14.

A. MAURUS Cress. Bar Harbor, June 21.

A. MELLICOXUS Prov. Bar Harbor; Jordan Pond, June 10–July 21.

A. MILVUS Cress. Common, June 10–July 25.

A. MIMICUS Cress. S. W. Harbor, Sept. 6.

A. MONTANUS Cress. Salisbury Cove, July 23.

A. NANUS Cress. Salisbury Cove; Bar Harbor, July 14–Sept. 11.

A. NIGRIPES Prov. Bar Harbor, June 2.

A. NIGROVARIEGATUS Prov. S. W. Harbor; Long Pond, July 10–Aug. 21.

A. NUBIVAGUS Cress. Salisbury Cove, July 17.

A. ORMENUS Cress. S. W. Harbor, Aug. 29 (Fernald).

A. PARVUS Cress. Witch Hole Pond; Bar Harbor, July 5–30.

A. PERLUCTUOSUS Cress. Bar Harbor, June 21.

A. POMILIUS Prov. Bar Harbor, July 24.

A. PRAVUS Cress. Salisbury Cove; Bar Harbor, July 17–Aug. 16.

A. PROXIMUS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, July 11–20.

A. RUBICUNDUS Cress. S. W. Harbor; Bar Harbor, July 15–19.

A. RUFIVENTRIS Brullé. S. W. Harbor; Salisbury Cove, July 15–24.

A. SAGUS Cress. N. E. Harbor, June 26 (Minot).
A. SCITULUS Cress. Bar Harbor; N. E. Harbor (Minot), June 11–Aug. 11.
A. SEMINIGRA Cress. Bar Harbor; Salisbury Cove, June 11–July 23.
A. STADACONENSIS Prov. Bar Harbor; Salisbury Cove, June 14–July 24.
A. STYGICUS Cress. Salisbury Cove, July 25.
A. SUBCYANEUS Cress. Bar Harbor, June 21.
A. SUBDOLUS Cress. S. W. Harbor, June 18–July 20.
A. SUBLATUS Cress. Bar Harbor, July 22–Aug. 12.
A. SUBRUFUS Cress. Salisbury Cove; Bar Harbor, June 21–July 25.
A. SUTURALIS Say. Bar Harbor; S. W. Harbor, June 21–Sept. 13.
A. UNIFASCIATORIUS Say. S. W. Harbor, Aug. 22 (Fernald).
A. VAFER Cress. Bar Harbor, June 22.
A. VERSABILIS Cress. Common, July 12–Sept. 8.
A. VESCUS Prov. Bar Harbor; Echo Lake, June 13–17.
A. VIOLA Cress. Bar Harbor; Salisbury Cove, June 21–July 24.
A. VITALIS Cress. Salisbury Cove; S. W. Harbor, July 24–Sept. 6.
?A. VICINUS Cress. Salisbury Cove, July 18.
A. VIVAX Cress. Narrows; S. W. Harbor, June 9–20.
A. W-ALBUM Cress. S. W. Harbor; Bar Harbor; Echo Lake, July 20–Sept. 7.
A. WINKLEYI Vier. S. W. Harbor, June 20.
A. near DUPLICATUS Cress. Salisbury Cove, July 17.
A. near EXCULTUS Cress. Bar Harbor, June 15.
A. near NUBIVAGUS Cress. S. W. Harbor, July 15.
A. near VAGANS Prov. Bar Harbor, June 15.
A. near VOLESUS Cress. Long Pond, Aug. 21.

HOPLISMENUS Gravenhorst

H. RUTILUS Cress. S. W. Harbor, July 29.

TROGUS Panzer

T. OBSIDIANATOR Brullé. Salisbury Cove, July 17–24. Parasitic on *Papilio polyxenes*.

T. (PSILOMASTIX) FULVIPES Cress. Common, July 8–24.

T. (PSILOMASTIX) VULPINUS Grav. (*exesorius* Brull.). Salisbury Cove, July 14–17. Parasitic on *Papilio polyxenes* and *turnus*.

MYERSIIDAE

MYERSIA Viereck

M. JOHNSONI Cush. S. W. Harbor; Long Pond, July 11–16.

TRIGONALIDAE

TRIGONALYS Westwood

T. SULCATA Davis. Duck Brook, July 30, 1919.

EVANIIDAE

GASTERUPTION Latreille

G. MONTANUS var. INCERTUS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, July 10–29.

G. TARSATORIUS Say. S. W. Harbor, July 28.

ODONTAULACUS Kieffer

O. ABDOMINALIS Cress. Bar Harbor; S. W. Harbor, June 13–July 29.

CYNIPIDAE. Gall wasps

ANDRICUS Hartig (*Callirhytis* auct.)

A. OPERATOR form OPERATOR O. S. Acorn gall. Robinson Mt., Sept. 7. The gall is an oval larval cell between the nut and cup of the acorn. On the scrub oak (*Quercus ilicifolia*). The agamic generation.

A. TUBEROSUS Bass. Robinson Mt. Irregular wood galls on the scrub oak.

A. SCITULUS Bass. Salisbury Cove; Bar Harbor. Irregular wood terminal swellings on the red oak (*Quercus rubra*).

A. SINGULARIS Bass. 'Small oak apple gall.' Bar Harbor; Salisbury Cove, Aug. On leaves of the red oak.

AMPHIBOLIPS Reinhard

A. INANIS O. S. Empty oak gall. Bar Harbor, Aug. 6. On the leaves of the red oak.

Solenozopheria Ashmead

S. vaccinii Ashm. Huckleberry gall. Salisbury Cove; Bar Harbor. A woody gall on huckleberry and blueberry.

Rhodites Hartig

R. bicolor Harr. Spiny rose gall. Bar Harbor; Salisbury Cove, July–Aug.

Ibaliidae

Callaspidia Dahlbom

C. provancheri Ashm. S. W. Harbor, July 30.

Chalcidoidea

Entedontidae

Pleurotropis Foerster

P. sp. S. W. Harbor, July 13.

Eulophidae

Sympiesis Foerster

S. bimaculatus Crawf. Green Mt.; Salisbury Cove, July 17–Aug. 21.

S. nigrifemora Asm. S. W. Harbor, July 11.

Cirrospiloideus Ashmead

C. johnsoni Gir. Narrows, June 24.

Euplectrus Westwood

E. sp. S. W. Harbor, July 11.

Pteromalidae

Neocatolaccus Ashmead

N. sp. Bar Harbor, Sept. 9.

Belonura Ashmead

B. singularis Ashm. Narrows, Aug. 13.

Trigonoderus Westwood

T. sp. Bar Harbor, Aug. 18.

Encyrtidae

Eunotus Walker

E. americanus Gir. 'Mt. Desert,' July 30 (McAtee).

HABRITYS Thomson

H. sp. S. W. Harbor, July 13.

LAMPROTATUS Westwood

L. sp. Long Pond; S. W. Harbor, July 16–Aug. 14.

EUROTOMIDAE

EUROTOMA Illiger

E. sp. S. W. Harbor, July 13.

CALLIMOMIDAE (*Torymidae*)

CALLIMOME Spinola (*Torymus* Dalm.)

C. BREVICAUDA O. S. S. W. Harbor, July 11–30.
C. sp. Echo Lake, July 17.

SYNTOMASPIS Foerster

S. sp. S. W. Harbor, Aug. 23.

CRYPTOPRISTIS Foerster

C. sp. Bar Harbor, Aug. 10.

PERILAMPIDAE

PERILAMPUS Latreille

P. CYANEUS Brull. Salisbury Cove, July 24.
P. sp. Bar Harbor; Green Mt., June 16–Aug. 10.

CHALCIDIDAE

BRACHYMERIA Westwood (*Chalcis* auct.)

B. COMPSILURAE Crawf. Long Pond, July 16.

SPILOCHALCIS Thomson

S. FLEBILIS Cress. Narrows; mouth, N. E. Creek; July 25–Aug. 13.
S. TORVINA Cress. Salisbury Cove; Witch Hole Pond; S. W. Harbor, July 19–Sept. 6.
S. sp. Tremont, Aug. 23.

LEUCOSPIDAE

LEUCOSPIS Fabricius

L. AFFINIS Say. Salisbury Cove; Bar Harbor; S. W. Harbor, July 23–28.

PROCTOTRYPOIDEA

DIAPRIIDAE

PARAMESIUS Westwood

P. sp. Narrows, Aug. 13.

ASHMEADOPRIA Kieffer

A. sp. Narrows, July 27.

BELYTIDAE

LEPTORHAPTUS Foerster

L. sp. Long Pond, July 10.

CINETUS Jurine

C. n.sp. Bar Harbor, Aug. 18.
C. sp. Bar Harbor, Aug. 18.

PANTOCLIS Foerster

P. CRASSICORNIS Ashm. S. W. Harbor, July 13.

SERPHIDAE

SERPHUS Schrank

S. sp. Bar Harbor, Aug. 18.
S. sp. S. W. Harbor; Bar Harbor, June 13–24.

PELECINIDAE

PELECINUS Latreille

P. POLYTURATOR Drury. Bar Harbor, Aug. 16–19 (Moore). One male was collected in 1921 and three in 1922 (Aug. 17, 31, and Sept. 7) at N. E. Harbor by A. R. Allen. The males are usually very scarce. Parasitic on the larvae of June beetle (Phyllophaga).

TIPHIIDAE

TIPHIA Fabricius

T. INORNATA Say. Salisbury Cove, July 23.

MYRMOSIDAE

MYRMOSA Latreille

M. UNICOLOR Say. Salisbury Cove, Aug. 11.

FORMICIDAE. Ants

CREMASTOGASTER Lund

C. LINEOLATA Say. Robinson Mt., Sept. 7. On sap from gall-infested acorns of the scrub oak; Cadillac Cliffs and Salisbury Cove, Sept. 11 and 12, males and females swarming.

MYRMICA Latreille

M. SCABRINODIS var. FRACTICORNIS Emery. S. W. Harbor; Green Mt.; Long Pond, July 11–Aug. 22.

M. SCABRINODIS var. SABULATES Mein. 'Mt. Desert,' July 30 (McAtee).

M. SCABRINODIS SCHENCKI var. EMERYANA Forel. S. W. Harbor; Witch Hole Pond, Sept. 6–11.

LEPTOTHORAX Mayr

L. ACERVORUM CANADENSIS Prov. S. W. Harbor, July 11.

L. CURVISPINOSUS AMBIGUUS Emery. 'Mt. Desert,' July 30 (McAtee).

DOLICHODERUS Lund

D. PLAGIATUS var. INORNATUS Wheeler. S. W. Harbor, Sept. 6.

D. PLAGIATUS Emery var. Break Neck Pond, Sept. 8.

TAPINOMA Foerster

T. SESSILE Say. S. W. Harbor, July 11–Sept. 6.

LASIUS Fabricius

L. NIGER var. AMERICANUS Emery. 'Mt. Desert,' July 30 (McAtee).

L. NIGER var. SITKAENSIS Pergande. Long Pond; Bar Harbor, June 27–July 17.

L. UMBRATUS MIXTUS var. APHIDICOLA Walsh. S. W. Harbor; Green Mt., July 15–25.

L. UMBRATUS SUBUMBRATUS Vier. Bar Harbor, Aug. 16.

FORMICA Latreille

F. SANGUINEA ASERVA Forel. Bar Harbor; S. W. Harbor; Green Mt., June 21–July 25.

F. FUSCA Linn. Common, June–Sept. This species makes large mounds. Near the foot of Western Mt. ('Gilly's field') was a mound that measured 7 by 11 feet, with an average height of 2 feet.

F. NEOGAGATES Emery. S. W. Harbor; Bar Harbor, July 14–Sept. 6.

F. RUFA INTEGRA Nyl. Salisbury Cove, Aug. 9.

CAMPONOTUS Mayr

C. HERCULEANUS PENNSYLVANICUS De G. Carpenter ant. Bar Harbor, July 20. Nesting in old logs and stumps, it frequently migrates to farm houses and becomes a pest both by riddling the wood-work and by visiting the kitchen for sweets.

C. HERCULEANUS LIGNIPERDUS var. NOVABORACENSIS Fitch. Common, June to Sept. Frequents old logs and stumps.

C. HERCULEANUS var. WHYMPERI Forel. Bar Harbor; Narrows, June 16–Aug. 13.

PSAMMOCHARIDAE. Spider-wasps

EPISYRON Schiödte

E. BIGUTTATUS Fab. Bar Harbor; Salisbury Cove; N. E. Harbor, July 15–Aug. 21. It provisions its nest with spiders (Epeira).

E. QUINQUENOTATUS Say. S. W. Harbor; Salisbury Cove, July 15–28. It provisions its nest with spiders (Epeira).

POMPILOIDES Radoszkowski

P. AMERICANUS Beauv. Common, July 17–29.

P. MARGINATUS Say. Green Mt., July 25.

P. CANADENSIS Banks. S. W. Harbor; Bar Harbor; Narrows, July 20–Aug. 13.

P. INSOLENS Banks. S. W. Harbor, July 11–20.

P. RECTUS Banks. Green Mt.; Echo Lake, July 17.

PSAMMOCHARES Latreille

P. ASTUR Banks. S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–24.

P. LASIOPE Banks. Bar Harbor; S. W. Harbor, July 26–Sept. 11.

P. PRETIOSA Banks. S. W. Harbor; Green Mt.; Bar Harbor, July 15–29.

Sophropompilus Banks

S. hyacinthinus Cress. S. W. Harbor, July 10–29.

Anoplius Le Peletier

A. tenebrosus Cress. Green Mt.; Narrows; Bar Harbor; S. W. Harbor, June 18–Aug. 13.

A. virginiensis Cress. Narrows; Salisbury Cove, July 14–Aug. 13.

A. ventralis Banks. Long Pond, July 16.

Priocnemis Schiödte

P. alienatus Smith. S. W. Harbor, July 28.

P. germanus Cress. Bar Harbor; Green Mt., Aug. 16, 17.

Pseudagenia Kohl

P. caliptera Cress. Eagle Lake, July 18.

P. nanella Banks. N. E. Harbor, July 26 (Minot).

P. varitarsata Banks. N. E. Harbor; Salisbury Cove, July 8–26.

Ageniella Banks

A. calcarata Cress. Salisbury Cove, July 15–Aug. 11.

A. iridipennis Cress. Bar Harbor, July 21.

Ceropales Latreille

C. fraterna Smith. Salisbury Cove; Green Mt., July 23–25. The species of the genus are parasitic in the nests of other genera of the family.

Eumenidae. Solitary wasps

Eumenes Fabricius. Potter-wasps

E. globulosus Sauss. Common, June 16–July 25.

Symmorphus Wesmael

S. albomarginatus Sauss. Bar Harbor, Aug. 16.

S. cristatus Sauss. Bar Harbor, July 24.

S. canadensis Sauss. Witch Hole Pond, July 30.

Ancistrocerus Wesmael

A. albophaleratus Sauss. Bar Harbor; Green Mt., July 18–25.

A. CAPRA Sauss. Bar Harbor; N. E. Harbor; S. W. Harbor, July 20–Aug. 22.
A. TIGRIS Sauss. Bar Harbor; S. W. Harbor; Long Pond, Aug. 18–Sept. 7.
A. WALDENII Vier. Bar Harbor; Green Mt., June 7–July 25.
A. UNIFASCIATUS Sauss. Salisbury Cove, Aug. 11.

ODYNERUS Latreille

O. KENNICOTIANUS Sauss. Bar Harbor, July 27.
O. LEUCOMELAS Sauss. S. W. Harbor; Salisbury Cove, July 10–17.

CHRYSIDIDAE. Cuckoo wasps

NOTOZUS Foerster

N. MARGINATUS Patt. Salisbury Cove, July 13, 19.

ELLAMPUS Spinola

E. LAEVIVENTRIS Cress. S. W. Harbor; Salisbury Cove; Bar Harbor, June 16–July 13.

HOLOPHRIS Mocsáry

H. IRIDESCENS Nort. Echo Lake; Bar Harbor, July 16–24.

HOLOPYGA Dahlbom

H. ASPERA Brull. Salisbury Cove, July 24.

HEDYCHRIDIUM Perrin

H. VIOLACEUM Brull. Bar Harbor, July 22.

CHRYSIDEA Bischoff

C. VERICALIS Patt. S. W. Harbor, June 21.

CHRYSIS Linnaeus

C. (GONOCHRYSIS) ATRIVENTER Taylor. Green Mt., July 25.
C. (TETRACHRYSIS) COERULANS Fab. Bar Harbor, June 15.
C. (TETRACHRYSIS) NITIDULA Fab. Common, July 7–Sept. 6.
C. (TETRACHRYSIS) NITIDULA var. CESSATA du Buysson. S. W. Harbor; Salisbury Cove, June 15–Sept. 23.
C. (TETRACHRYSIS) PELLUCIDULA Aaron. S. W. Harbor, July 24.

VESPIDAE. Social wasps

VESPULA Thomson

V. ARCTICA Vier. (*V. borealis* Lewis & Kby.). Northern hornet. Echo Lake; N. E. Harbor; Bar Harbor; Green Mt., July 12–29.

V. CONSOBRINA Sauss. Small white-faced hornet. Common, June 20–Sept. 6.

V. MACULATA Linn. White-faced hornet. S. W. Harbor; Bar Harbor, July 10– Sept. 6.

V. COMMUNIS Sauss. Common yellow-jacket. N. E. Harbor; Bar Harbor, June 30–July 21.

V. DIABOLICA Sauss. Common, June 30–Sept. 6.

V. NORVEGICA Fab. S. W. Harbor; Bar Harbor, Aug. 12–21.

V. VIDUA Sauss. Bar Harbor; N. E. Harbor, Aug. 10–Sept. 22.

SPHECIDAE

LARRINAE

ASTATA Latreille

A. UNICOLOR Say. Salisbury Cove, July 23.

A. LENSTROMI Ashm. Salisbury Cove, July 24.

LARROPSIS Patton

L. DISTINCTA Smith. Bar Harbor; Salisbury Cove; S. W. Harbor, July 19–29.

TRYPOXYLONINAE

TRYPOXYLON Latreille

T. FRIGIDUM Smith. Common, July 17–Sept. 6.

SPHECINAE

SPHEX Linnaeus

S. ARVENSIS Dahlb. Common, June 11–Aug. 23.

PODALONIA Spinola (*Psammophila* Dahlbom)

P. VIOLACEIPENNIS Le Pel. Salisbury Cove; Green Mt.; S. W. Harbor, July 11–25.

CHALYBION Dahlbom

C. CAERULEUM Linn. Blue mud-dauber. Bar Harbor, July 24. It stores its nest with spiders, usually species of Epeira.

MARINE BIOLOGICAL LABORATORY WOODS HOLE LIBRARY MASS.

Sceliphron Klug

S. caementarius Drury. Common mud-dauber. Salisbury Cove, July 24.

Pseninae

Psen Latreille

P. pauper Pack. Bar Harbor, Aug. 16.

P. basirufus Pack. Echo Lake; S. W. Harbor; N. E. Harbor, July 6–18.

Pemphredon Latreille

P. angularis Fox. Bar Harbor (Moore); N. E. Harbor, July 6 (Minot).

Cemonus Jurine

C. inornatus Pack. Upper Hadlock Pond; Bar Harbor, June 10–21.

Stigmus Panzer

S. americanus Pack. Bar Harbor; Echo Lake, June 15–17. They make their nest in the pith of dry branches of sumac, provisioning it with aphids.

Passaloecus Shuckard

P. mandibularis Cress. Bar Harbor; S. W. Harbor, June 17–July 29.

Bembicinae

Philanthus Fabricius

P. bilunatus Cress. Salisbury Cove, July 14, 24.

Aphilanthops Patton

A. frigidus Smith. Salisbury Cove, July 23. It makes its nest in the ground and provisions it with queen ants.

Cerceris Latreille

C. clypeata Cress. S. W. Harbor; Salisbury Cove; Bar Harbor, July 20–24.

C. dentifrons Cress. Salisbury Cove, July 18–24. The species of this genus provision their nests with beetles.

Alyson Jurine

A. oppositus Say. Salisbury Cove; Bar Harbor, July 19–Aug. 15.

Nysson Latreille

N. lateralis Pack. Salisbury Cove, July 23–25.

Hoplisus Le Peletier

H. atricornis Pack. S. W. Harbor; Salisbury Cove; Bar Harbor, July 15–24.

H. flavicornis Pack. Salisbury Cove, July 24.

H. simillinus Smith. Salisbury Cove; S. W. Harbor; Bar Harbor, July 17–Aug. 20.

Oxybelinae

Oxybelus Latreille

O. quadrinotatus Say. Salisbury Cove, July 23.

Crabroninae

Crabro Fabricius (*Thyreopus* Ashmead)

C. monticola Pack. Salisbury Cove, July 28.

C. (Blepharipus) ater Cress. S. W. Harbor; Bar Harbor; Narrows, July 15–Aug. 13.

Clytochrysus Morawitz

C. obscurus Smith. S. W. Harbor, June 21–July 15.

C. septentrionalis Pack. Salisbury Cove, July 24.

Solenius Le Peletier

S. interruptus Le P. Salisbury Cove, July 24.

Ectemnius Dahlbom

E. corrugatus Pack. S. W. Harbor, July 11.

E. montanus Cress. Long Pond; Salisbury Cove, July 16–17.

Lophocrabro Viereck

L. trapezoideus Pack. Bar Harbor, July 19.

Xestocrabro Ashmead

X. sayi Ckll. (Crabro sexmaculata Say, not Oliv.). Common. July 10–Aug. 23.

X. trifasciatus Say. S. W. Harbor, July 11.

Hypocrabro Ashmead

H. chrysargynus Le P. S. W. Harbor; Echo Lake; Bar Harbor, July 11–20.

Cuphopterus Morawitz

C. maculipennis Smith. Echo Lake; N. E. Harbor, July 12–Aug. 10.

Apoidea

Halictidae

Halictus Latreille

H. lerouxi Le Pel. Common, July 6–Sept. 6.
H. provancheri D. T. Bar Harbor; S. W. Harbor, Aug. 15.

Subgenus Evylaeus Robertson

H. arcuatus Robts. Bar Harbor; 'Narrows,' July 18–Aug. 14.
H. foxii Robts. Bar Harbor, June 7–13.
H. quadrimaculatus Robts. S. W. Harbor, July 13.
H. truncatus Robts. S. W. Harbor, Sept. 6.

Subgenus Lasioglossum Curtis

H. coriaceus Smith. Common, June 22–Sept. 7.
H. similis Smith. Common, July 6–Aug. 17.

Subgenus Chlorolictus Robertson

H. cressoni Robts. Bar Harbor; Green Mt.; Echo Lake, June 11–July 25.
H. nymphaearum Robts. Narrows, Aug. 13.
H. versatus Robts. Bar Harbor; Long Pond; Narrows, June 15–Aug. 21.
H. zephyrus Smith. S. W. Harbor; Echo Lake, July 10–17.

Andrenidae

Andrena Fabricius

A. cockerelli Graen. Bar Harbor; Salisbury Cove, June 7–9.
A. hirticincta Prov. S. W. Harbor, Aug. 23. On flowers of goldenrod.
A. lata Vier. Bar Harbor, June 8, 1921. Type locality.
A. milwaukensis Graen. Bar Harbor; Echo Lake, June 8–July 12. Stylopized.
A. nubecula Smith. Bar Harbor, Sept. 9–11.
A. thaspii Graen. Echo Lake; N. E. Harbor (Minot), June 18–July 8. Stylopized.

A. TUMIDA Vier. Echo Lake, July 12, 1918. Type locality.

A. VICINA Smith. Bar Harbor, June 8. On flower of fruit trees.

A. WILKELLA Kby. S. W. Harbor; Bar Harbor, June 7–July 22. On flowers of the raspberry and gooseberry.

OXYSTOGLOSSA Smith

O. CONFUSUS Robts. Green Mt., July 25.

O. PURUS Say. Bar Harbor; Salisbury Cove, June 9–July 25.

SPHECODES Latreille

S. JOHNSONI Lovell. N. E. Harbor, July 24.

S. NUBILUS Lovell and Cockerell. Bar Harbor, Aug. 15.

S. OBSCURANS Lovell and Cockerell. Bar Harbor, June 16–July 24.

S. RANUNCULI Robts. Bar Harbor, June 15.

The species of Sphecodes are parasitic in the nests of species of Halictus.

MACROPIDAE

MACROPIS Panzer

M. MORSEI Robts. S. W. Harbor; Echo Lake; Salisbury Cove, June 23–July 13.

PANURGIDAE

CALLIOPSIS Smith

C. ANDRENIFORMIS Smith. On flower of Leontodon autumnalis, July 30 (McAtee). Salisbury Cove, July 13.

NOMADIDAE

NOMADA Fabricius

N. CUNEATA var. QUADRISIGNATA Robts. Bar Harbor; Echo Lake, June 16–July 26.

N. PERPLEXA Cress. Bar Harbor; Narrows; Salisbury Cove, June 9–July 23.

These are known as 'cuckoo bees,' living parasitically in the nests of other bees.

EUCERIDAE

MELISSODES Latreille

M. RUSTICA Say. Bar Harbor; S. W. Harbor; Salisbury Cove, Aug. 10–22.

ANTHOPHORIDAE

CLISODON Patton

C. TERMINALIS Cress. Bar Harbor; Salisbury Cove, June 15–July 18.

HYLAEIDAE

HYLAEUS Fabricius (*Prosopis* Fabricius)

H. ELLIPTICA Kirby. Bar Harbor; Salisbury Cove, July 13–19.
H. MODESTUS Say. Common, June 17–July 30.
H. THASPII Robts. S. W. Harbor, July 11.

MEGACHILIDAE

MEGACHILE Latreille. Leaf-cutting bees

M. INFRAGILIS Cress. Common, July 12–Sept. 23.
M. LATIMANUS Say. Salisbury Cove, Aug. 11, 1926.
M. MELANOPHEA Smith. Common, June 9–July 25.
M. MENDICA Cress. S. W. Harbor, Sept. 6.
M. MUSIDA Cress. Common, June 21–July 26.
M. RELATIVA Cress. S. W. Harbor; Echo Lake; Bar Harbor, June 27–Sept. 13.
M. VIDUA Smith. Bar Harbor; S. W. Harbor; Echo Lake, June 7–July 20.

CAELIOXYS Latreille

C. SODALIS Cress. Bar Harbor, July 19–20.
C. sp. Bar Harbor, July 10.

The species of this genus are parasitic on the species of Megachile.

OSMIA Panzer. Mason bees

O. ALBIVENTRIS Cress. Salisbury Cove, July 13.
O. SIMILLIMA Smith. Common, June 9–July 12.
O. DISTINCTA Cress. 'Mt. Desert,' July 30, on flowers of Vicia (McAtee).
O. PUMILA Cress. Bar Harbor, June 9.

ANDRONICUS Cresson

A. CYLINDRICUS Cress. Bar Harbor; S. W. Harbor, June 8–July 11.
A. PRODUCTUS Cress. Bar Harbor, June 7.

CERATINIDAE

CERATINA Latreille

C. DUPLA Say. Bar Harbor, June 25. It makes its nest in the pith of briars, etc.

APIDAE

BREMUS Panzer (*Bombus* Latreille). Bumble bees

B. BIMACULATUS Cress. 'Mt. Desert,' July 30 (McAtee).

B. FERVIDUS Fab. Bar Harbor, June 7.

B. PERPLEXUS Cress. Common, June 17–Sept. 6.

B. TERNARIUS Say. Orange-banded bumble bee. Common, June 7–Aug. 24.

B. TERRICOLA Kby. Bar Harbor; N. E. Harbor (Minot); S. W. Harbor, June 14–Aug. 25.

PSITHYRUS Le Peletier

P. ASHTONI Cress. Bar Harbor; S. W. Harbor; Narrows, June 7–Aug. 14.

P. LABORIOSUS Fab. S. W. Harbor, July 15.

P. LABORIOSUS var. CITRINUS Smith. Bar Harbor; S. W. Harbor, July 10–Aug. 14.

P. TRICOLOR Frankl. (*P. fernaldi* Frankl.). Bar Harbor; Tremont, July 19–Aug. 23.

APIS Linnaeus

A. MELLIFICA Linn. Honey bee.

Order DIPTERA

NEMATOCERA

PTYCHOPTERA Meigen

P. RUFICINCTA O. S. Bar Harbor, July 21–24; Echo Lake, Sept. 1–4 (Alexander).

BITTACOMORPHA Westwood

B. CLAVIPES Fab. 'Phantom crane-fly.' Bar Harbor, July 21–26; Echo Lake, Sept. 1–4 (Alexander).

BITTACOMORPHELLA Alexander

B. JONESI Johns. Long Pond, July 16; foot of Pickett's Mt., July 21.

TIPULIDAE. Crane flies

GERANOMYIA Haliday

G. CANADENSIS Westw. Echo Lake, Sept. 4 (Alexander).

DISCOBOLA Osten Sacken

D. ARGUS Say. Common, July 24–Sept. 8.

RHIPIDIA Meigen

R. MACULATA Meig. N. E. Harbor (Minot); Long Pond; Western Mt. (Alexander), June 30–Sept. 8.

DICRANOMYIA Stephen

D. GLADIATOR O. S. Bar Harbor; Narrows, July 24–27.

D. HAERITICA O. S. Bar Harbor; S. W. Harbor; Narrows, June 10–July 27.

D. IMMODESTA O. S. Salisbury Cove; N. E. Harbor (Minot); Echo Lake (Alexander), July 14–Sept. 8.

D. LIBERTA O. S. Bar Harbor; S. W. Harbor; Echo Lake, June 13–July 12.

D. LONGIPENNIS Schum. S. W. Harbor, June 20; N. E. Harbor, Aug. 11 (Minot).

D. MORIOIDES O. S. Bar Harbor, June 13.

D. PROFUNDA Alex. Echo Lake, Aug. 29 (Alexander).

D. PUBIPENNIS O. S. Bar Harbor, June 19–July 30.

D. SPINIFERA Alex. Echo Lake and Beech Mt., Aug. 31–Sept. 12 (Alexander).

D. STULTA O. S. Fernald Cove, Aug. 26; Beech Mt., Sept. 12 (Alexander).

LIMONIA Meigen

L. GLOBITHORAX O. S. Echo Lake, Sept. 1 (Alexander).

L. HUDSONICA O. S. Bar Harbor, Aug. 10.

L. IMMATURA O. S. Bar Harbor, June 21; Beech Mt., Sept. 12 (Alexander).

L. INDIGENA O. S. Bar Harbor; Long Pond; Echo Lake, June 20–Sept. 1.

L. PARIETINA O. S. Beech Mt., Sept. 10 (Alexander).

L. SOLITARIA O. S. Common, June 13–Sept. 1.

L. TRIOCELLATA O. S. Bar Harbor; Salisbury Cove; Echo Lake, July 12–Sept. 1.

L. TRISTIGMA O. S. Bar Harbor; N. E. Harbor (Minot); Echo Lake (Alexander), July 26–Sept. 10.

ELEPHANTOMYIA Osten Sacken

E. WESTWOODI O. S. Echo Lake; Eagle Lake; Bar Harbor, July 17–24.

TOXORHINA Loew

T. MULIEBRIS O. S. Eagle Lake; Bar Harbor, July 18–24.

CLADURA Osten Sacken

C. (NEOCLADURA) DELICATULA Alex. Beech Mt., Sept. 10–12 (Alexander).

GONOMYIA Meigen

G. BIDENTATA Alex. Echo Lake; Beech Mt., Aug. 29–Sept. 12 (Alexander).

G. SUBCINEREA O. S. Bar Harbor, July 18.

HELOBIA St. Fargeau and Serville

H. HYBRIDA Meig. S. W. Harbor, July 11; N. E. Harbor, Aug. 11 (Minot).

MOLOPHILUS Curtis

M. FORCIPULA O. S. Long Pond; Bar Harbor, July 16–24.

M. HIRTIPENNIS O. S. S. W. Harbor; Bar Harbor, July 11–17.

M. PUBIPENNIS O. S. Common, July 16–Sept. 11.

M. SOROR Alex. (*M. comatus* auct., non Doane). S. W. Harbor, Sept. 11 (Alexander).

M. URSINA O. S. Bar Harbor, July 22.

ERIOPTERA Meigen

E. CHLOROPHYLLA O. S. Long Pond; Bar Harbor, July 16–26.

E. CHRYSOCOMA O. S. Bar Harbor, July 17–20.

E. (ACYPHONA) ARMILLARIS O. S. Bar Harbor, July 17.

E. (MESOCYPHONA) NEEDHAMI Alex. Bar Harbor, July 11.

E. (EMPEDA) NYCTOPS Alex. Upper Hadlock Pond, June 10.

E. (EMPEDA) STIGMATICA O. S. Echo Lake, Aug. 29 (Alexander).

GNOPHOMYIA Osten Sacken

G. TRISTISSIMA O. S. N. E. Harbor (Minot); Bar Harbor, July 8–22.

Ormosia Rondani

O. deviata Dietz. Echo Lake; S. W. Harbor, Sept. 1–11 (Alexander).
O. luteola Dietz. Echo Lake; S. W. Harbor, Aug. 28–Sept. 8 (Alexander).
O. megacera Alex. Echo Lake, Sept. 1 (Alexander).
O. monticola O. S. Dry Mt.; Echo Lake; S. W. Harbor, Aug. 26–Sept. 10 (Alexander).
O. nimbipennis Alex. Common. Dry Mt.; Echo Lake; Western Mt., Aug. 25–Sept. 12 (Alexander).
O. nubilis O. S. Echo Lake; Western Mt., Sept. 4–8 (Alexander).
O. pygmaea Alex. Dry Mt.; Echo Lake; S. W. Harbor, Aug. 31–Sept. 10 (Alexander).
O. rubella O. S. Echo Lake; S. W. Harbor, Aug. 29–Sept. 10 (Alexander).

Ula Haliday

U. paupera O. S. Echo Lake, Sept. 11 (Alexander).
U. elegans O. S. 'Sand Beach,' Great Head, July 11.

Adelphomyia Bergroth

A. americana Alex. Echo Lake; Beech Mt.; S. W. Harbor, Sept. 1–12 (Alexander).
A. cayuga Alex. S. W. Harbor, Aug. 30–Sept. 11 (Alexander).

Epiphragma Osten Sacken

E. fascipennis Say. Bar Harbor, June 11–14.

Limnophila Macquart

L. adusta O. S. S. W. Harbor, July 15.
L. areolata O. S. Echo Lake; Bar Harbor, July 12–20.
L. lenta O. S. Eagle Lake; Bar Harbor; S. W. Harbor, July 18–Sept. 11.
L. lutea Doane. Common, June 11–July 18.
L. brevifurca O. S. Echo Lake, Sept. 4 (Alexander); Duck Brook, Sept. 11.
L. nigripleura Alex. & Leon. Bar Harbor, July 21–24.
L. recondita O. S. Bar Harbor, June 16–July 21.

L. (Lasiomastix) macrocera Say. Bar Harbor, Aug. 15.
L. (Ephelia) solstitialis Alex. Echo Lake, Sept. (Alexander).
L. (Dicranophragma) fuscovaria O. S. Bar Harbor; S. W. Harbor; Echo Lake, July 21–Sept. 1.
L. (Prionolabis) montana O. S. Bar Harbor; N. E. Harbor (Minot), June 21–30.
L. (P.) munda O. S. Echo Lake, July 12; Beech Mt., Sept. 10–12 (Alexander).
L. (P.) rufibasis O. S. Bar Harbor; N. E. Harbor (Minot), June 21–30.
L. (P.) unica O. S. Bar Harbor, June 22.
L. (Phylidora) fratria O. S. Bar Harbor, June 3.
L. (Pilaria) quadrata O. S. Bar Harbor, June 11–July 21.
L. (P.) tenuipes Say. Bar Harbor, July 19.

Pseudolimnophora Alexander

P. contempta O. S. Echo Lake, Aug. 29 (Alexander).
P. inornata O. S. 'Witch Hole'; Long Pond, June 13–20.
P. novaboracensis Alex. Echo Lake, Sept. 1–4 (Alexander).
P. toxoneura O. S. Bar Harbor, June 13; Echo Lake, July 12.

Eriocera Macquart

E. brachycera O. S. Bar Harbor, July 21–Aug. 10.

Pedicia Latreille

P. albivitta Walk. Salisbury Cove; N. E. Harbor (Minot); Echo Lake (Alexander), Aug. 7–Sept. 1.

Tricyphona Zetterstedt

T. autumnalis Alex. Long Pond, Aug. 21; N. E. Harbor, Sept. 6 (Minot); Echo Lake, Sept. 10 (Alexander).
T. calcar O. S. Bar Harbor; Upper Hadlock Pond; Echo Lake, June 8–July 17.
T. inconstans O. S. Common, June 11–Sept. 10.
T. vernalis O. S. Jordan Pond; Long Pond; Bar Harbor, June 10–July 26.

Amalopina Osten Sacken

A. flaveola O. S. Long Pond; Bar Harbor; Echo Lake, July 16–Sept. 10.

Rhaphidolabis Osten Sacken

R. cayuga Alex. S. W. Harbor, Aug. 30–Sept. 11 (Alexander).
R. rubescens Alex. Echo Lake; Beech Mt., Sept. 8–12 (Alexander).
R. tenuipes O. S. Dry Mt.; Echo Lake, Aug. 26–Sept. 10 (Alexander).

Phalocrocera Schiner

P. tipulina O. S. S. W. Harbor; Salisbury Cove, July 11–18.

Liogma Osten Sacken

L. nodicornis O. S. Bar Harbor; Echo Lake, June 7–July 12.

Dolichopeza Curtis

D. americana Needh. Duck Brook; S. W. Harbor; Long Pond, June 13–20.

Oropeza Needham

O. albipes Johns. Bar Harbor, July 21.
O. dorsalis Johns. S. W. Harbor; Echo Lake, July 13–17.
O. sayi Johns. Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 11–July 12.
O. similis Johns. Duck Brook; Long Pond, June 13–20.
O. obscura Johns. Common, June 20–Aug. 16.

Tanyptera Latreille

T. topazina O. S. Bar Harbor, June 8.

Stygeropis Loew

S. fuscipennis Loew. S. W. Harbor, July 13; Witch Hole Pond, Aug. 18.

Nephrotoma Meigen

N. brevioricornis Doane. S. W. Harbor, Sept. 5 (Alexander).
N. eucera Loew. Bar Harbor, June 7; S. W. Harbor, July 10–16.
N. ferruginea Fab. Common, June 11–Aug. 29.
N. incurva Loew. Bar Harbor; N. E. Harbor (Minot), June 16–Aug. 3.
N. pedunculata Loew. S. W. Harbor, June 21–July 10.

N. TENUIS Loew. N. E. Harbor; Green Mt.; Seal Harbor, June 26–July 25.

N. XANTHOSTIGMA Loew. S. W. Harbor; Salisbury Cove; N. E. Harbor (Minot), July 20–Sept. 4.

TIPULA Linnaeus

T. ABDOMINALIS Say. Bar Harbor, July 22–Aug. 18.

T. ANGULATA Loew. S. W. Harbor, July 15.

T. APICALIS Loew. Bar Harbor; N. E. Harbor (Minot), June 21–July 16.

T. ARCTICA Curtis. Bar Harbor; S. W. Harbor, June 7–21.

T. BELLA Loew. Bar Harbor, June 17.

T. BICORNIS Forbes. S. W. Harbor, June 21.

T. CAYUGA Alex. Bar Harbor, June 7–22.

T. FRAGILIS Loew. Western Mt. (Alexander); N. E. Harbor (Minot); Duck Brook, Sept. 8–24.

T. GRATA Loew. N. E. Harbor (Minot); S. W. Harbor, July 12–Aug. 16.

T. HERMANNIA Alex. Common, July 12–Sept. 3.

T. IGNOBILIS Loew. N. E. Harbor, July 17–Aug. 4 (Minot).

T. IROQUOIS Alex. Bar Harbor; Long Pond, June 3–July 16.

T. LATIPENNIS Loew. Common, July 11–26.

T. MAINENSIS Alex. Dry Mt.: Western Mt., Aug. 28–Sept. 10 (Alexander).

T. MONTICOLA Alex. Duck Brook, June 13.

T. NOBILIS Loew. Echo Lake, July 12.

T. SENEGA Alex. Bar Harbor, June 8.

T. SIMILISSINA Dietz. N. E. Harbor, June 27 (Minot).

T. STREPENS Loew. Bar Harbor, June 8–17.

T. SUBMACULATA Loew. Bar Harbor, July 24.

T. TEPHROCEPHALA Loew. Echo Lake; N. E. Harbor (Minot), June 17–July 12.

T. TRIVITTATA Say. N. E. Harbor (Minot); Beech Mt. (Alexander), June 26–Sept. 12.

T. UMBROSA Loew. Common, July 17–Sept. 13.

T. ULTIMA Alex. Witch Hole Pond; Beech and Western Mts. (Alexander), Sept. 8–12.

T. VALIDA Loew. Bar Harbor, July 21.

T. (Cinctotipula) algonquin Alex. N. E. Harbor (Minot); Flying Mt. and Western Mt. (Alexander), Aug. 27–Sept. 8.

T. (Trichotipula) oropezoides Johns. N. E. Harbor, Aug. 29 (Minot).

Dixidae

Dixa Meigen

D. centralis Loew. Bar Harbor, July 25; Duck Brook, Sept. 11.

D. modesta Johan. Jordan Pond, June 10; S. W. Harbor, Aug. 30–Sept. 10 (Alexander).

D. fusca Loew. Flying Mt., Aug. 26 (Alexander).

Culicidae

Culicinae. Mosquitoes

Wyeomyia Theobald

W. smithii Coq. Pitcher-plant mosquito. Pond Heath; Salisbury Cove; Witch Hole, July 12–30. This species lives only in the water in the leaves of the pitcher-plant (*Sarracenia purpurea*). It is the smallest of the mosquitoes and passes the winter in the larval stage frozen in the ice.

Culex Linnaeus

C. territans Walk. Bar Harbor, Sept. 10. The larva lives in puddles and water barrels.

Taeniorhynchus Lynch Arribalzaga

T. perturbans Walk. Bar Harbor, July 19–29. One of the most troublesome of the mosquitoes. The larvae live among the roots of Carex and do not come to the surface of the water to breathe. It passes the winter as half-grown larva.

Aëdes Meigen

A. atropalpus Coq. 'Rock-pool mosquito.' Bar Harbor, July 10. The larva lives in holes in the rocks. The winter is passed in the egg state attached to rocks.

A. aurifer Coq. 'Golden-scaled mosquito.' North end of Long Pond, June 26. The larva lives in spring pools. It passes the winter in the egg state.

A. CANTATOR Coq. 'Brown salt-marsh mosquito.' Narrows; Bar Harbor; 'Great Heath'; S. W. Harbor, June 9–Aug. 23.

A. DIANTAEUS Howard, Dyar & Knab. Bar Harbor; S. W. Harbor, June 7–25. The larvae live in pools in woods. The winter is passed in the egg.

A. FITCHII Felt & Young. Long Pond; S. W. Harbor; Bar Harbor; N. E. Harbor, June 20–July 16. Frequents the woods. The winter is passed in the egg.

A. INTRUDENS Dyar. Bar Harbor; S. W. Harbor; Echo Lake, June 7–25. The winter is passed in the egg. The larvae develop early in the spring in pools in the woods.

A. LAZARENSIS Felt & Young. Bar Harbor; S. W. Harbor; Echo Lake, June 7–26. The larvae live in pools in the woods in early spring. The winter is passed in the egg.

A. PUNCTOR Kby. Northern woods mosquito. Common, June 7–July 12. The larvae live in pools in the woods, developing in early summer. The winter is passed in the egg.

A. SOLLICITANS Walk. White-banded salt-marsh mosquito. Narrows, June 26–Aug. 13. The most northern range for this troublesome sea-coast mosquito. It breeds in the pools in the salt marshes, wintering in the egg state.

A. STIMULANS Walk. Brown wood mosquito. Bar Harbor; Echo Lake; S. W. Harbor, June 17–July 30. The winter is passed in the egg. The larvae develop in pools in the woods.

ANOPHELES Meigen

A. MACULIPENNIS Meig. Outlet of Long Pond, June 20, 1921. This is one of the malaria carriers. As I have taken but one specimen, it is apparently rare on the island.

CORETHRINAE. Non-biting mosquitoes

CHAOBORUS Lichtenstein

C. AMERICANUS Johan. (*C. cristallina* auct.). S. W. Harbor, July 13.

C. TRIVITTATUS Loew. Duck Brook, Sept. 11, 1922.

EUCORETHRA Underwood

E. UNDERWOODI Underw. Pools in a spring run at the head of Bear Brook, near Bar Harbor, July 21; Echo Lake, Sept. (Alexander). The larva is predaceous, feeding upon the larvae of other mosquitoes.

PSYCHODIDAE. Moth-flies

PSYCHODA Latreille

P. CINEREA Banks. S. W. Harbor, June 18.

P. SIGNATA Banks. Long Pond; Echo Lake; Bar Harbor, June 27–July 24.

P. SLOSSONI Will. Bar Harbor; Salisbury Cove, July 19–Aug. 11.

CHIRONOMIDAE. Midges

CULICOIDES Latreille. Biting midges

C. SANGUISUGA Coq. Long Pond, July 16.

CERATOPOGON Meigen

C. LEVIS Coq. Bar Harbor, June 22–July 28.

PSEUDOCULICOIDES Malloch

P. MUTABILIS Coq. 'Mt. Desert,' July 30 (McAtee).

FORCIPOMYIA Meigen

F. SQUAMIPES Coq. 'Mt. Desert,' July 31 (McAtee).

PALPOMYIA Meigen

P. NEBULOSA Mall. Bar Harbor, July 21.

JOHANNSENOMYIA Malloch

J. BIMACULATA Loew. Bar Harbor, Aug. 10.

HETEROMYIA Say

H. FLAVIPES Meig. Bar Harbor, June 11.

H. PLEBIA Loew. Bar Harbor, Aug. 18.

H. RUFA Loew. Witch Hole Pond, June 13.

H. TRIVIALIS Loew. Salisbury Cove, July 15.

SERROMYIA Meigen

S. FEMORATA Meig. S. W. Harbor, July 13.

PROBEZZIA Kieffer

P. XANTHOGASTER Kieff. (*P. elegans* Coq.). Jordan Pond, June 10.

TANYPUS Meigen

T. CARNEA Fab. Bar Harbor, July 22–Sept. 13.
T. HIRTIPENNIS Loew. Bar Harbor, Sept. 13.
T. MELANOPS Meig. Long Pond; Bar Harbor, June 27–July 19.
T. MONILIS Linn. Echo Lake, July 12.

CHIRONOMUS Meigen

C. ANNULARIS De G. Bar Harbor, June 13.
C. BRACHIALIS Coq. Bar Harbor, Aug. 10.
C. CRISTATUS Fab. Bar Harbor; S. W. Harbor, June 16–Aug. 23.
C. DEVINCTUS Say. Echo Lake, July 12.
C. DISPAR Meig. Jordan Pond; Echo Lake, June 10–July 12.
C. DUX Johan. Bar Harbor, July 20.
C. FALLAX Johan. Duck Brook, June 13.
C. MODESTUS Say. Bar Harbor, June 11.
C. NIGRICANS Johan. S. W. Harbor, July 13–Sept. 10.
C. PEDELLUS De G. Bar Harbor, July 22–24.
C. PULCHRIPENNIS Coq. Echo Lake, July 12.
C. QUADRIPUNCTATUS Mall. Bar Harbor, July 10.
C. TAENIAPENNIS Coq. Echo Lake, July 12.
C. VARIPENNIS Coq. Seal Cove Brook, Sept. 8.
C. VIRIDICOLLIS V.d.W. Bar Harbor, June 13.
C. ZONOPTERUS Mitch. Echo Lake, June 12.
C. TENDENS Fab. S. W. Harbor, Aug. 30–Sept. 1 (Alexander).

EURYCNEMUS Van der Wulp

E. SCITULUS Coq. Echo Lake, June 17.

CHASMATONOTUS Loew

C. BIMACULATUS O. S. Echo Lake, July 12.
C. UNIMACULATUS Loew. Bar Harbor; N. E. Harbor; Echo Lake, June 22–July 24.

CECIDOMYIIDAE (*Itonididae*). Gall Midges

CATOCHA Haliday

C. sp. N. E. Harbor, July 8.

LESTREMIA Macquart

L.? ACERIFOLIA Felt. S. W. Harbor, June 18, 1921.

L. DYARI Felt. Bar Harbor, July 22, 1912.

L. SOLIDAGINIS Felt. Bar Harbor, July 22, 1919.

CORDYLOMYIA Felt

C. TUMIDA Felt. N. E. Harbor, July 8 (Minot).

PORRICONDYLA Rondani

P. SYLVESTRIS Felt. Bar Harbor, Aug. 12, 1921.

P. sp. N. E. Harbor, Aug. 6 (Minot).

P. sp. Bar Harbor, June 6.

RHABDOPHAGA Westwood

R. BATATAS Walsh. Willow potato-gall. S. W. Harbor; Salisbury Cove, Aug. 5 (Sanford).

R. BRASSICOIDES Walsh. Willow cabbage-gall. Bar Harbor; Salisbury Cove, Aug. 5 (Sanford).

R. SALICIFOLIA Felt. Spiraea pod-gall. Salisbury Cove; Bar Harbor.

R. STROBILOIDES Walsh. Cone willow-gall. Common, a cone-like gall on willow.

R. TRITICOIDES Walsh. Wheat-ear willow-gall. Bar Harbor, July 10.

DASYNEURA Rondani

D. GAYLUSSACII Felt. Blueberry leaf-gall.

LASIOPTERA Meigen

L. SPIRAEAFOLIA Felt. Bar Harbor. A blister-leaf gall on *Spiraea latifolia* (meadow sweet).

NEOLASIOPTERA Felt

N. RAMUSCULA Beutm. Aster stem gall. S. W. Harbor. Fusiform stem galls on asters.

ASTEROMYIA Felt

A. CARBONIFERA Felt. Common. An oval black, ocellate blister-gall on the leaves of Solidago.

PHYTOPHAGA Rondani

P. RIGIDAE O. S. Beaked willow-gall. Bar Harbor; Salisbury Cove.

OLIGOTHROPHUS Latreille

O. sp. Long Pond, June 20.

ASPHONDYLIA Loew

A. ANTENNARIAE Wheeler. Everlasting-bud gall. Bar Harbor, Aug. 15. Corn-shaped bud gall on Everlasting (*Antennaria plantaginifolia*).

CINCTICORNIA Felt

C. MAGALIS O. S. Oak-vein gall. Bar Harbor. A vein gall on the leaves of the red oak.

C. PILULAE Walsh. Oak-pill gall. Bar Harbor; Salisbury Cove. Round, hard, rough galls on the leaves of the red oak.

CONTARINIA Rondani

C. CANADENSIS Felt. Ash-midrib gall. Bar Harbor, June.

C. VIRGINIANAE Felt. Choke-cherry midge. Salisbury Cove. This midge causes swollen deformed fruit on the choke-cherry.

C. SPIRAEINA Felt. Spiraea cabbage-gall. S. W. Harbor. A terminal cabbage-like bud-gall.

TRISHORMOMYIA Kieffer

T. CANADENSIS Felt. 'June-berry lipped gall.' S. W. Harbor; Bar Harbor, June. A truncated red-lipped gall on the shadbush (*Amelanchier canadensis*).

OBOLODIPLOSIS Felt

O. ROBINIAE Hald. Locust-leaf midge. Salisbury Cove, July 14. Forming rolled leaf-margins on locust (*Robinia pseudo-acacia*).

MYCODIPLOSIS Rübsaamen

M. POPULIFOLIA Felt. Salisbury Cove; Bar Harbor, Aug. Bullet-like swelling at the base of poplar leaves.

Cecidomyia Meigen (*Itonida* Meigen)

C. niveipila O. S. 'Oak fold gall.' Salisbury Cove, Aug. An irregular white pubescent gall on the under side of the leaf, with a fold on the upper side.

C. ocellaris O. S. 'Maple leaf-spot.' Common. A yellow red-margined blister leaf-gall.

C. pellex O. S. Ash bullet gall. Bar Harbor. Round red gall on the midrib.

C. sp.? Toothed purse gall. Common. A flattened pouch gall on the leaves on the shadbush (*Amelanchier*).

Mycetophilidae. Fungus gnats

Bolitophila Meigen

B. disjuncta Loew. Bar Harbor; Seal Cove, June 11–Sept. 10.

B. montana Coq. Bar Harbor, June 7.

Symmerus Walker

S. tristis Loew. Bar Harbor, Aug. 10.

Diadocidia Ruthe

D. ferruginosa Meig. Long Pond, June 27.

Asindulum Winnertz

A. coxale Loew. Bar Harbor; Salisbury Cove, Aug. 10–11.

A. montanum Roeder. Green Mt.; S. W. Harbor; N. E. Harbor (Minot), Aug. 17–25.

Ceroplatus Bosc

C. clausus Coq. Sieur de Monts Spring, Sept. 13.

C. militaris Johan. Sieur de Monts Spring, Sept. 13.

Platyura Meigen

P. generalis Johan. N. E. Harbor, July 12 (Minot).

P. mendosa Loew. Bar Harbor; Long Pond, July 21–Aug. 10.

P. fascipennis var. sagax Johan. Salisbury Cove, July 27.

Macrocera Meigen

M. clara Loew. Bar Harbor, July 20–Aug. 10.

M. formosa Loew. 'George,' Green Mt., July 25.

M. hirsuta Loew. Bar Harbor, July 20.

M. INCONCINNA Loew. Echo Lake; Bar Harbor, June 15–July 20.

M. NEBULOSA Coq. Bar Harbor; Green Mt.; S. W. Harbor, June 20–July 26.

MONOCLONA Mik

M. ELEGANTULA Johan. Bar Harbor, Aug. 10.

EUDICRANA Loew

E. OBUMBRATA Loew. Bar Harbor, June 14.

SCIOPHILA Meigen

S. GLABANA Johan. Echo Lake; Bar Harbor, July 17–22.

S. PALLIPES Say. N. E. Harbor, Aug. 11 (Minot).

POLYLEPTA Winnertz

P. OBEDIENS Johan. Bar Harbor, July 21.

MYCOMYA Rondani

M. APPENDICULATA Loew. Duck Brook, Sept. 11.

M. HIRTICOLLIS Say.? Echo Lake, June 17.

M. IMITANS Johan. Echo Lake; S. W. Harbor; Bar Harbor, July 17–Sept. 10.

M. INCOMPTA Johan. Bar Harbor, June 15.

M. LITTORALIS Say. Bar Harbor, June 13–Aug. 15.

M. OBLIQUA Say. Bar Harbor, July 22–30.

M. ONUSTA Loew. N. E. Harbor, June 30 (Minot).

M. SEQUAX Johan. Duck Brook, June 13.

M. TANTILLA Loew. 'Mt. Desert,' July 30 (McAtee).

NEURATELIA Rondani

N. SCITULA Johan. Bar Harbor, June 15; S. W. Harbor, July 20.

ALLOCOTOCERA Mik

A. PARVULA Coq. Green Mt., Aug. 17.

BOLETINA Staeger

B. TRICINCTA Loew. Echo Lake; Bar Harbor; Green Mt., July 12–25.

B. NOTESCENS Johan. Bar Harbor, July 21.

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Leia Meigen

L. melaena Loew. Duck Brook, Aug. 18.

L. oblectabilis Loew. Bar Harbor; N. E. Harbor (Minot), July 24–Aug. 11.

L. opima Loew. N. E. Harbor (Minot); Echo Lake; Bar Harbor, July 4–Sept. 11.

L. sublunata Loew. Bar Harbor, July 21.

L. ventralis Say. Narrows, Aug. 13.

L. winthemii Lehm. N. E. Harbor, Aug. 11–27 (Minot).

Syntemna Winnertz

S. polyzona Loew. Bar Harbor, July 21.

Trichonta Winnertz

T. perspicua V.d.Wulp. Bar Harbor, June 11.

Cordyla Meigen

C. volucris Johan. Duck Brook, Sept. 11.

Brachypeza Winnertz

B. bisignata var. divergens Johan. Bar Harbor, June 11.

Allodia Winnertz

A. elata Johan. Green Mt., July 25.

Exechia Winnertz

E. auxiliaria Johan. Long Pond, June 27.

E. bellula Johan. Long Pond, June 27.

Mycothera Winnertz

M. impellans Johan. Bar Harbor, Aug. 10.

Mycetophila Meigen

M. fastosa Johan. Bar Harbor, July 21.

M. mutica Loew. Duck Brook, Sept. 11, 1922.

M. obscura Walk.? S. W. Harbor, Sept. 6.

M. perlonga Johan. Bar Harbor; Duck Brook; Green Mt., June 13–Sept. 11.

M. punctata Meig. Bar Harbor, July 20.

M. scalaris Loew. Bar Harbor; Salisbury Cove, June 15–Sept. 11.

M. socia Johan. 'Mt. Desert,' July 30 (McAtee).

M. trichonota Loew. Bar Harbor; Echo Lake, June 14–Sept. 11.

Sceptonia Winnertz

S. nigra Meig. 'Mt. Desert,' July 30 (McAtee).

Sciaridae

Zygoneura Meigen

Z. flavicoxa Johan. Bar Harbor, July 22.

Sciara Meigen

S. habilis Johan. N. E. Harbor, July 4 (Minot).
S. ochrolabis Loew. Bar Harbor, June 11.
S. sciophila Loew. Bar Harbor, Aug. 16.

Neosciara Pettey

N. fumida Johan. Bar Harbor, July 22.
N. hastata Johan. Bar Harbor, July 22.
N. sylvestris Kieffer. Echo Lake, July 12.
N. varians Johan. N. E. Harbor, Aug. 11 (Minot).

Bibionidae

Plecia Wiedemann

P. heteroptera Say. S. W. Harbor; Echo Lake; Bar Harbor, Sept. 7–13.

Bibio Geoffroy

B. basalis Loew. Bar Harbor; Echo Lake; S. W. Harbor, June 11–24.
B. longipes Loew. S. W. Harbor, Sept. 6.
B. variabilis Loew. Bar Harbor; Echo Lake, June 8–17.

Scatopsidae

Swammerdamella Enderlein

S. brevicornis Meig. S. W. Harbor; Narrows; Bar Harbor, July 11–Aug. 18.

Riechertella Enderlein

R. femoralis Meig. S. W. Harbor, July 14.

Rhegmoclema Enderlein

R. atrata Say. 'Mt. Desert,' July 31 (McAtee).

Aldrovandiella Enderlein

A. halterata Meig. 'Mt. Desert,' July 30 (McAtee).

SIMULIIDAE

PROSIMULIUM Raubaud

P. HIRTIPES Fries. Echo Lake; Green Mt., June 17–July 25.

SIMULIUM Latreille. 'Black flies'

S. PARNASSUM Mall. Bar Harbor, July 11.

S. VENUSTUM Say. Bar Harbor; S. W. Harbor, June 7–25.

BLEPHAROCERIDAE

BLEPHAROCERA Macquart

B. TENUIPES Walk. Duck Brook, June 13.

XYLOPHAGIDAE

RHACHICERUS Haliday

R. NITIDUS Johns. Foot of Pickett Mt.; Bar Harbor, July 29, 1919.

XYLOPHAGUS Meigen

X. RUFIPES Loew. Strawberry Hill; Bar Harbor, June 9, 1921.

STRATIOMYIDAE

ALLOGNOSTA Osten Sacken

A. BREVICORNIS Johns. Salisbury Cove, July 12.

A. FUSCITARSIS Say. S. W. Harbor; Bar Harbor, July 11–22.

A. OBSCURIVENTRIS Loew. Bar Harbor; N. E. Harbor (Minot), June 7–26.

ACTINA Meigen

A. VIRIDIS Say. Bar Harbor; Echo Lake; S. W. Harbor, June 7–21.

MACROSARGUS Bigot (*Sargus* of authors)

M. CUPRINUS Linn. Salisbury Cove, July 12–Aug. 10.

M. DECORUS Say. Salisbury Cove; Bar Harbor, June 9–16.

MICROCHRYSA Loew

M. POLITA Linn. Common, July 17–Aug. 15.

STRATIOMYIA Geoffroy

S. BADIA Walk. Common on flowers, July 12–Aug. 1.

ODONTOMYIA Meigen

O. CINCTA Oliv. Narrows, June 26; July 17, pupa, imago, July 21.

O. PUBESCENS Day. S. W. Harbor; Narrows; Salisbury Cove, June 9–July 13.

O. VIRGO Oliv. S. W. Harbor, July 11.

TABANIDAE

BUPLEX Austen (*Pangonia* of authors in part)

B. TRANQUILLA O. S. Common, July 20–Aug. 13.

CHRYSOPS Meigen. Deer or moose flies

C. CALLIDA O. S. Salisbury Cove, July 24–Aug. 7.

C. CARBONARIA O. S. Common, June 11–July 15.

C. CELER O. S. Salisbury Cove, July 13–Aug. 11.

C. EXCITANS Walk. Common, June 7–July 20.

C. FRIGIDA O. S. Common, June 9–July 18.

C. FULIGINOSA Wied. Narrows, June 26; S. W. Harbor, July 9 (Fernald).

C. LATERALIS Wied. (*hilaris* O. S.). Salisbury Cove; Bar Harbor, July 14–Aug. 12.

C. MITIS O. S. Sargent Mt.; Bar Harbor, June 7–July 10.

C. NIGER Macq. S. W. Harbor, June 21–July 10.

C. STRIATA O. S. Bar Harbor; Salisbury Cove, July 20–25.

C. VITTATA Wied. Bar Harbor; Salisbury Cove, July 13–Aug. 10.

TABANUS Linnaeus. Horse flies

T. AFFINIS Kby. Bar Harbor, July 30.

T. ASTUTUS O. S. Salisbury Cove, July 18–25.

T. CINCTUS Fab. Salisbury Cove, Aug. (Dahlgren).

T. EPISTATES O. S. Common, June 8–July 31.

T. LASIOPHTHALMUS Macq. Common, June 7–July 22.

T. MICROCEPHALUS O. S. Common, July 24–Aug. 26.

T. NIGROVITTATUS Macq. Common 'green-head.' Narrows; Salisbury Cove, July 18–27.

T. OHIOENSIS Hine. Salisbury Cove, July 15 (Olsen); S. W. Harbor, July 15.

T. PEMETICUS Johns. N. E. Harbor, July 22 (Minot); Green Mt., Aug. 17; S. W. Harbor, Aug. 20. The type locality of the species. The name is derived from Pemetic, the Indian name of the island.

T. SEPTENTRIONALIS Loew. S. W. Harbor; Echo Lake; Narrows, July 15–Aug. 23.

T. TRISPILUS var. SODALIS Will. Echo Lake; Salisbury Cove; Bar Harbor, July 17–29.

T. ZONALIS Kby. S. W. Harbor, July 11.

RHAGIONIDAE (*Leptidae*)

RHAGIO Fabricius (*Leptis* Fabricius)

R. GRACILIS Johns. Sieur de Monts Spring; Duck Brook, July 22–Aug. 18.

R. MYSTACEA Macq. Common, June 13–July 4.

CHRYSOPILUS Macquart

C. QUADRATUS Say. Common, July 8–20.

SPANIA Meigen

S. NIGRA var. AMERICANA Johns. Witch Hole Pond; Jordan Pond, June 10–21, 1921.

CYRTIDAE. Little-headed flies

OGCODES Latreille

O. COSTATUS Loew. S. W. Harbor, July 15.

O. PALLIDIPENNIS Loew. Long Pond; Salisbury Cove, July 16–Aug. 7.

OPSEBIUS Costa

O. PTERODONTINUS O. S. Top of Robinson Mt., May 1, 1912 (Fernald).

BOMBYLIIDAE. Bee flies

ANTHRAX Scopoli (*Spogostylum* Macquart)

A. OEDIPUS Fab. Bar Harbor; Tremont, July 29–Aug. 23. Parasitic in the nests of solitary wasp (*Odynerus*).

EXOPROSOPA Macquart

E. CAPUCINA Fab. S. W. Harbor; Salisbury Cove, July 15.

VILLA Lioy (*Anthrax* of authors)

V. ALTERNATA Say. Bar Harbor, July 20.

V. HYPOMELAS Macq. S. W. Harbor, Aug. 5–22. This has been bred from one of the cut-worms.

V. LATERALIS Say. Common, July 29–Aug. 23.

V. LATERALIS var. GRACILIS Macq. Bar Harbor; S. W. Harbor, July 15–22.

V. FULVIANA var. NIGRICAUDA Loew. Common, July 19–Sept. 6.

V. MORIO Linn. Bar Harbor; Salisbury Cove; S. W. Harbor, June 11–July 17.

V. TEGMINIPENNIS Say. S. W. Harbor, July 17–Aug. 21 (Fernald).

BOMBYLIUS Linnaeus

B. PYGMAEUS Fab. Bar Harbor, June 7–11.

THEREVIDAE

THEREVA Latreille

T. FLAVICINCTA Loew. S. W. Harbor, July 31; Seal Cove Brook, Sept. 18.

T. FRONTALIS Say. Echo Lake, July 17.

SCENOPINIDAE

SCENOPINUS Latreille

S. FENESTRALIS Linn. N. E. Harbor, Aug. 10 (Minot).

ASILIDAE. Robber-flies

LEPTOGASTER Meigen

L. BADIUS Loew. Salisbury Cove, July 24, 1925.

L. TESTACEA Loew. Mouth of Northeast Creek, July 25, 1925.

DIOCTRIA Meigen

D. ALBIUS Walk. S. W. Harbor; Green Mt., June 25–Aug. 17.

CYRTOPOGON Loew

C. ALLENI Back. Bar Harbor; Duck Brook; Echo Lake (Alexander), Aug. 16–29.

C. FALTO Walk. Bar Harbor; Echo Lake, June 8–July 17.

C. LUTATIUS Walk. Upper Hadlock Pond; Bar Harbor, June 10–July 29.

C. TENUIS Bromley. S. W. Harbor, July 20, 1923. The type locality.

Pogonosoma Rondani

P. ridingsii Cress. Seal Harbor (Prof. Edw. S. Morse).

Dasyllis Loew

D. insignis Banks. Common, June 17–Aug. 22.
D. flavicollis Say. Bar Harbor; S. W. Harbor, June 11–Aug. 16.
D. posticata Say. Common, June 30–Aug. 25.
D. sacrator Walk. Salisbury Cove, Aug. 7, 1926.

Laphria Meigen

L. aeatus Walk. S. W. Harbor, Aug. 8, 1910 (Fernald).
L. altitudinum Bromley. Bar Harbor, June 16.
L. canis Will. Common, June 25–Aug. 17.
L. gilva Linn. Bar Harbor; Salisbury Cove, July 18–Aug. 14.
L. janus McAtee. Common, June 7–July 24.
L. sadales Walk. Bar Harbor, July 29.
L. scorpio McAtee. Bar Harbor; S. W. Harbor, July 24–Aug. 22.
L. sericea Say. S. W. Harbor (Fernald).

Asilus Linnaeus

A. notatus Wied. Common, June 20–Aug. 26.
A. novae-scotiae Macq. Salisbury Cove; Bar Harbor, July 24–Aug. 18.
A. orphne Walk. Echo Lake, June 27.
A. paropus Walk. S. W. Harbor, July 15–Aug. 24.
A. sadyates Walk. Salisbury Cove; N. E. Harbor; Echo Lake, July 13–Sept. 7.
A. snowii Hine. Bar Harbor; Salisbury Cove, July 10–15.

Dolichopodidae

Sciapus Zeller (*Psilopus* Meigen)

S. tener Loew. Salisbury Cove, July 15.
S. caudatus Wied. Salisbury Cove, July 15–25.
S. flavipes Aldr. Salisbury Cove, July 15.
S. scrobinator Loew. Common, July 12–25.

Diaphorus Meigen

D. gibbosus Van Duzee. S. W. Harbor, June 25–July 11.
D. opacus Loew. Salisbury Cove, July 25.

CHRYSOTUS Meigen

C. AFFINIS Loew. S. W. Harbor; Salisbury Cove, July 13–16.

CAMPSICNEMUS Haliday

C. WHEELERI Van Duzee. Bar Harbor, Aug. 4.

ARGYRA Macquart

A. ANGUSTATA Van Duzee. Echo Lake, July 17, 1918.
A. CALCEATA Loew. Bar Harbor, July 19; Salisbury Cove, Aug. 9.
A. ROBUSTA Johns. Bar Harbor, June 11.

LEUCOSTOLA Loew

L. CINGULATA Loew. Bar Harbor; Echo Lake, June 20–Sept. 7.

RHAPHIUM Meigen (*Porphyrops* Meigen)

R. FUMIPENNIS Loew. Bar Harbor; Echo Lake, June 15–27.
R. LONGIPES Loew. Echo Lake; Long Pond, July 12–16.
R. MELAMPUS Loew. Long Pond, June 27.
R. NIGRICOXA Loew. S. W. Harbor, June 16.
R. SLOSSONAE Johns. Bar Harbor, July 26.

SYMPYCNUS Loew

S. LINEATUS Loew. Salisbury Cove; Long Pond, Aug. 13–Sept. 7.

NOTHOSYMPYCNUS Wheeler

N. LUTEIPES Van Duzee. Bar Harbor, July 22.

NEUROGONIA Rondani

N. FLORIDULA Wheeler. Common, June 13–July 16.
N. DEFORMIS Van Duzee. Bar Harbor, June 21.
N. NITIDA Van Duzee. Bar Harbor, July 11.

CHRYSOTIMUS Loew

C. DELICATUS Loew. Salisbury Cove, July 14.

MEDETERUS Fischer von Waldheim

M. MODESTUS Van Duzee. Bar Harbor, June 11.

Hydrophorus Fallén

H. aestuans Loew. Echo Lake; Sand Beach, June 17–Sept. 13.
H. chrysologus Walk. S. W. Harbor; Bar Harbor, July 13–Aug. 10.
H. intentus Aldr. Narrows, Aug. 13.
H. pirata Loew. Bar Harbor, June 21.

Orthoceratium Schrank (*Liancalus* Loew)

O. genualis Loew. Western Mt., Sept. 8 (Alexander).

Dolichopus Latreille

D. albiciliatus Loew. Bar Harbor, June 13–Sept. 9.
D. adultus Van D., Cole & Aldr. Echo Lake, June 17.
D. calainus Mel. & Brues. Bar Harbor, July 10.
D. comatus Loew. Common, June 11–Sept. 7.
D. cuprinus Wied. Bar Harbor; Narrows, July 22–27.
D. deflectus Van D., Cole & Aldr. Bar Harbor, Sept. 9.
D. discifer Stannius. Common, June 13–July 27.
D. fulvipes Loew. Common, June 13–July 15.
D. indigena Van D., Cole & Aldr. Bar Harbor, Aug. 18.
D. longimanus Loew. Echo Lake; Bar Harbor, July 10–22.
D. marginatus Aldr. Bar Harbor; 'Narrows,' June 13–July 27.
D. melanocerus Loew. Witch Hole Pond; Bar Harbor, July 30–Sept. 13.
D. multisetosus Van D., Cole & Aldr. Bar Harbor, July 10.
D. ornatipennis Van D., Cole & Aldr. 'Heath,' Salisbury Cove; Duck Brook, Aug. 9–18.
D. plumipes Scop. S. W. Harbor, July 15.
D. porphyrops Van D., Cole & Aldr. S. W. Harbor, June 16.
D. pugil Loew. Tremont; Narrows, June 9–July 27.
D. ramifer Loew. S. W. Harbor, July 13.
D. remipes Wohlberg. Witch Hole Pond; Bar Harbor, July 26–30. On water-lily pads.
D. scoparius Loew. Duck Brook; Bar Harbor, June 13–22.
D. setifer Loew. S. W. Harbor; Salisbury Cove, July 13–15.
D. setosus Loew. S. W. Harbor, July 13.

D. SINCERUS Mel. Long Pond; Bar Harbor, July 16–Aug. 18.
D. SLOSSONAE Van D., Cole & Aldr. Echo Lake; Bar Harbor, June 17–July 21.
D. SOCIUS Loew. S. W. Harbor; Long Pond, July 15–16.
D. SOCIUS var. GLADIUS Van D., Cole & Aldr. Salisbury Cove, July 15.
D. VARIABILIS Loew. Bar Harbor, July 20–Sept. 11.
D. VARIABILIS var. GRACILIS Aldr. S. W. Harbor, July 15–Aug. 23.
D. WHEELERI Mel. & Brues. S. W. Harbor, July 15.

HERCOSTOMUS Loew

Subgenus GYMNOPTERNUS Loew

H. ALBICEPS Loew. Jordan Pond, June 10.
H. CHALCOCHRUS Loew. Long Pond, July 16.
H. FREQUENS Loew. Common, June 8–July 17.
H. PHYLLOPHORUS Loew. S. W. Harbor; Long Pond, June 18–July 13.
H. SPECTABILIS Loew. Echo Lake, June 27.
H. SUBDILATUS Loew. Bar Harbor, Aug. 12.
H. SUBULATUS Loew. Common, July 13–27.

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PARACLIUS Loew

P. VICINUS Aldr. Narrows, July 27.

TACHYTRECHUS Loew

T. MOECHUS Loew. Witch Hole Pond, June 13.

PELASTONEURUS Loew

P. LAMELLATUS Loew. Tremont; Narrows, June 20–July 27.
P. VAGANS Loew. Bar Harbor, Sept. 13.

EMPIDIDAE

EUDRAPETIS Melander

E. ARMATA Mel. Narrows; Salisbury Cove, July 15–27.
E. PARVICORNIS Mel. Narrows, June 9; Salisbury Cove, July 25.
E. SPECTABILIS Mell. Narrows, July 27.

PLATYPALPUS Macquart

P. AEQUALIS Loew. Narrows, July 27.
P. CRASSIFEMORIS Fitch. S. W. Harbor, July 13.
P. FLAVIROSTRIS Loew. Echo Lake; Green Mt., July 12–25.
P. SUTOR Mel. S. W. Harbor, July 13.

TACHYPEZA Meigen

T. ROSTRATA Loew. Bar Harbor; N. E. Harbor (Minot), June 1–Sept. 5.

CHELIPODA Macquart

C. ELONGATA Mel. Echo Lake; S. W. Harbor, July 12–Sept. 3.

HEMERODROMIA Meigen

H. NOTATA Loew. Long Pond, July 16–Aug. 21.
H. PALLORIS Coq. Bar Harbor; Duck Brook, July 20–30.
H. SCAPULARIS Loew. Jordan Pond; Long Pond, June 10–July 16.

CLINOCERA Meigen

C. CONJUNCTA Loew. Green Mt., July 25.
C. CTENISTES Mel. Bar Harbor; Duck Brook, June 4–13.

SYNECHES Walker

S. SIMPLEX Walk. Salisbury Cove, July 15.

SYNDYAS Loew

S. DORSALIS Loew. Breakneck Pond, Sept. 8.
S. POLITA Loew. S. W. Harbor; Echo Lake, July 11–12.

EUHYBOS Coquillett

E. TRIPLEX Walk. S. W. Harbor; Bar Harbor, June 21–July 26.

HYBOS Meigen

H. SLOSSONAE Coq. S. W. Harbor, July 13–30.

OEDALEA Meigen

O. OHIOENSIS Mel. Echo Lake, June 7.

LEPTOPEZA Macquart

L. COMPTA Coq. S. W. Harbor; N. E. Harbor; Echo Lake, June 16–July 12.
L. FLAVIPES Meig. Bar Harbor; Echo Lake, June 7–27.

Ocydromia Meigen

O. glabricula Fall. Echo Lake; Bar Harbor; Narrows, July 12–27.

Empis Linnaeus

E. nuda Loew. Echo Lake, June 27.
E. rufescens Loew. Common, June 7–July 17.

Hilara Meigen

H. femorata Loew. Bar Harbor, June 8–15.
H. gracilis Loew. Common, July 30–Aug. 26.
H. leucoptera Loew. Narrows; Pretty Marsh, June 9–20.
H. tristis Loew. Common, June 13–July 16.

Oreogeton Schiner

O. obscura Loew. Jordan Pond; Long Pond, June 10–27.
O. rufa Loew. Jordan Pond; Long Pond, June 10–July 10.

Anthalia Zetterstedt

A. flava Coq. S. W. Harbor; Long Pond, June 24–July 16.

Trichina Meigen

T. flavipes Meig. Jordan Pond; S. W. Harbor; Echo Lake, June 10–July 17.

Microphorus Macquart

M. atratus Coq. Jordan Pond; Bar Harbor; Echo Lake, June 10–July 19.

Cyrtoma Meigen

C. pilipes Loew. Salisbury Cove; S. W. Harbor, July 27–Aug. 26.

Rhamphomyia Meigen

R. amplipedis Coq. Bar Harbor; S. W. Harbor, June 13–20.
R. americana Wied. S. W. Harbor, June 24.
R. arcuata Coq. Seal Harbor, Sept. 8.
R. basalis Loew. Bar Harbor; Echo Lake, June 7–July 12.
R. candicans Loew. S. W. Harbor; Long Pond, July 10–17.
R. debilis Loew. N. E. Harbor; Long Pond, June 29–July 16.
R. gilvipes Loew. Bar Harbor; S. W. Harbor; Long Pond, June 13–July 16.

R. GRACILIS Loew. N. E. Harbor; Bar Harbor, July 26–Aug. 18.
R. IRREGULARIS Loew. Long Pond, June 27.
R. LITURATA Loew. Bar Harbor, June 8.
R. LUTEIVENTRIS Loew. Bar Harbor; S. W. Harbor, Echo Lake, June 13–27.
R. MANCA Coq. Echo Lake; Bar Harbor; Salisbury Cove, July 12–27.
R. MUTABILIS Loew. Bar Harbor; Long Pond, June 16–July 16.
R. PHEMIUS Walk. Bar Harbor; Echo Lake, June 15–17.
R. PRIAPULUS Loew. Bar Harbor; Echo Lake; S. W. Harbor, June 13–July 10.
R. PULLA Loew. Bar Harbor; Long Pond; S. W. Harbor, June 9–July 30.
R. PUSIO Loew. S. W. Harbor, June 24.
R. RUSTICA Loew. Bar Harbor; Long Pond, Aug. 18–21.
R. SETOSA Coq. Bar Harbor, June 9–July 17.
R. TERSA Coq. S. W. Harbor, June 24.
R. UMBROSA Loew. Long Pond, June 27.
R. VALGA Coq. Bar Harbor, June 7.
R. VARA Loew. S. W. Harbor; Echo Lake, June 20–27.
R. VIRGATA Coq. S. W. Harbor, June 21.

LONCHOPTERIDAE

LONCHOPTERA Meigen

L. FURCATA Fall. (*L. riparia* Meig.). Bar Harbor, July 24.
L. FURCATA var. LACUSTRIS Meig. S. W. Harbor, July 13.

PHORIDAE

CHAETANEUROPHORA Malloch

C. CURVINERVIS Beck. S. W. Harbor, Aug. 13.

HYPOCERA Lioy

H. FEMORATA Meig. S. W. Harbor; Echo Lake; N. E. Harbor (Minot), July 13–Aug. 8.

APHIOCHAETA Brues (*Megaselida* Rondani)

A. CILIATA Bett. Bar Harbor, July 22.
A. MINOR Zett. 'Mt. Desert,' July 28 (McAtee).

A. NIGRICEPS Loew. N. E. Harbor (Minot); Long Pond; Bar Harbor, July 26–Sept. 11.

A. PICTA Lehm. Bar Harbor; Green Mt.; N. E. Harbor (Minot), July 21–Sept. 13.

A. PULICARIA Fall. 'Mt. Desert,' July 31 (McAtee).

A. PYGMAEA Zett.? 'Mt. Desert,' July 31 (McAtee).

A. RUFIPES Meig. Bar Harbor, July 22–Sept. 10.

A. STRAMINIPES Mall. Bar Harbor, July 22.

APOCEPHALUS Coquillett

A. BOREALIS Brues. Salisbury Cove, July 17, 1923. Type locality.

GYMNOPHORA Macquart

G. QUARTOMOLLIS Schmitz (*G. arcuata* auct.). 'Mt. Desert,' July 30 (McAtee).

PHORA Latreille

P. ATERRIMA Fab. Echo Lake; Bar Harbor; S. W. Harbor, July 12–22.

P. VELUTINA Meig. Green Mt.; Bar Harbor, Aug. 17–Sept. 10.

CONICERA Meigen

C. ATRA Meig. 'Mt. Desert,' July 31 (McAtee).

PLATYPEZIDAE. 'Flat-footed flies'

The larvae live in decaying fungi

AGATHOMYIA Verrall

A. NOTATA Loew. Bar Harbor; Duck Brook; S. W. Harbor, July 24–30.

A. PULCHELLA Johns. Bar Harbor; Witch Hole Pond, July 22–Aug. 18.

A. TALPULA Loew. Echo Lake; Long Pond, June 27–July 16.

CALLIMYIA Meigen

C. VELUTINA Johns. Duck Brook; Long Pond, June 13–July 16.

PLATYPEZA Meigen

P. ANTHRAX Loew. Echo Lake; Bar Harbor, Sept. 7–10.

P. PALLIPES Loew. (*Calotarsa ornatipes* Town. ♂). Echo Lake; Bar Harbor, Sept. 7–10.

P. VELUTINA Loew. Long Pond, Aug. 31.

PLATYPEZOIDES Johnson

P. DIVERSA Johns. Bar Harbor, Sept. 11. Type locality.

MICROSANIA Zetterstedt

M. STIGMATICALIS Zett. 'Mt. Desert,' July 31 (McAtee).

PIPUNCULIDAE. 'Big-eyed flies'

The larvae are parasitic in the bodies of bugs and leafhoppers.

CHALARUS Walker

C. SPURIUS Fall. Bar Harbor, Aug. 16.

VERRALLIA Mik

V. PILOSA Zett. Bar Harbor; S. W. Harbor, June 7–16.

PIPUNCULUS Latreille

P. AEQUUS Cress. Duck Brook, Sept. 11, 1922.
P. ATLANTICUS Hough. Bar Harbor, June 7.
P. CAUDATUS Cress. Bar Harbor; Upper Hadlock Pond; S. W. Harbor, June 9–25.
P. CINGULATUS Loew. Bar Harbor; Echo Lake, July 12.
P. DUBIUS Cress. Salisbury Cove; Green Mt., July 24–25.
P. FUSCUS Loew. S. W. Harbor; Salisbury Cove, July 20–23.
P. HORVATHI Kertz. Echo Lake, June 17.
P. MINOR Cress. Salisbury Cove, July 15.
P. PALLIPES Johns. Bar Harbor; Long Pond, June 10–20.
P. SCOPARIUS Cress. Salisbury Cove; Echo Lake; S. W. Harbor, July 14–Sept. 5.
P. VIDUUS Cress. Salisbury Cove, July 13–19.

SYRPHIDAE

MICRODON Meigen

M. CONFLICTUS Curr. Witch Hole Pond, July 20; S. W. Harbor, Aug. 26 (Alexander).
M. COTHURNATUS Bigot. 'Great Clearing,' north of Sargent Mt., June 10.
M. MANITOBENSIS Curr. Bar Harbor; S. W. Harbor, June 9–22.
M. OCELLARIS Curr. Bar Harbor, June 9.
M. TRISTIS Loew. Bar Harbor, June 8–21.

CHRYSOTOXUM Meigen

C. DERIVATUM Walk. Salisbury Cove, Aug. 7, 1926.

C. FASCIOLATUM De G. Long Pond; S. W. Harbor; Bar Harbor, June 17–July 24.

C. PERPLEXUM Johns. Witch Hole Pond; S. W. Harbor, Aug. 18–Sept. 6.

CHRYSOGASTER Meigen

C. NIGRIPES Loew. Bar Harbor, July 21.

C. PULCHELLA Will. S. W. Harbor; Bar Harbor, July 10–19.

PIPIZA Fallén

P. FEMORALIS Loew. Bar Harbor, June 8.

P. NIGROPILOSA Will. Bar Harbor, June 8.

P. QUADRIMACULATA Panz. Bar Harbor; Echo Lake, June 13–27.

PIPIZELLA Rondani

P. PUBESCENS Loew. Bar Harbor; S. W. Harbor, June 15–July 15.

P. RECEDENS Walk. Bar Harbor; S. W. Harbor, June 21–July 15.

HERINGIA Rondani

H. SALAX Loew. Bar Harbor, July 20–22.

CNEMODON Egger

C. ELONGATA Curr. Bar Harbor, June 9–17.

C. PISTICOIDES Will. Long Pond; Salisbury Cove, July 16–24.

PARAGUS Latreille

P. ANGUSTIFRONS Loew. Salisbury Cove; Bar Harbor, July 17–Aug. 10.

P. BICOLOR Fab. Salisbury Cove, July 14.

P. TIBIALIS Fall. Bar Harbor; Salisbury Cove, July 22–24.

CHILOSIA Meigen

C. ORILLIAENSIS Curr. S. W. Harbor, June 21.

CARTOSYRPHUS Bigot

C. PALLIPES Loew. Common, June 26–July 30.

C. SLOSSONAE Shan. 'Great Clearing,' north of Sargent Mt., June 10.

C. TRISTIS Loew. Common, June 12–Sept. 6.

Baccha Fabricius

B. cognata Loew. Bar Harbor; Echo Lake; N. E. Harbor (Minot), June 11–Aug. 25.

Pyrophaena Schiner

P. granditarsus Foerster. S. W. Harbor, July 15.

P. rosarum Fab. Bar Harbor; S. W. Harbor; Salisbury Cove, June 13–Aug. 9.

Platychirus St. Fargeau and Serville

P. chaetopodus Will. Bar Harbor, June 8.

P. hyperboreus Staeg. Salisbury Cove, July 25.

P. immarginatus Zett. S. W. Harbor; Bar Harbor (Metcalf), June 15–July 25.

P. peltatus Meig. Bar Harbor, June 16–July 17.

P. quadratus Say. 'Narrows'; Salisbury Cove, June 9–July 27.

Melanostoma Schiner

M. angustatum Will. Bar Harbor, June 14.

M. confusum Curr. S. W. Harbor, June 16.

M. mellinum Linn. Common, June 22–July 27.

M. obscurum Say. Bar Harbor; 'Narrows'; Long Pond, June 21–Sept. 7.

Leucozona Schiner

L. leucorum var. americana Curr. Bar Harbor; Echo Lake; S. W. Harbor, June 9–23.

Didea Macquart

D. fasciata var. fuscipes Loew. Bar Harbor; Echo Lake, June 15–17.

Syrphus Fabricius

S. arcuatus Fall. S. W. Harbor, June 21.

S. perplexus Osburn. Echo Lake; S. W. Harbor, July 12–Aug. 20.

S. amalopis O. S. Bar Harbor; Echo Lake, June 9–July 12.

S. disjectus Will. Bar Harbor; Salisbury Cove; 'Narrows,' July 22–Aug. 13.

S. WIEDEMANNI Johns. Bar Harbor; 'Narrows,' June 9–Aug. 13.
S. LATIFASCIATUS Macq. (abbreviatus Will.). Salisbury Cove, July 23–24.
S. RIBESII Linn. Common, July 10–Sept. 9.
S. RIBESII var. VITTIFRONS Shan. Bar Harbor; Long Pond; Salisbury Cove; S. W. Harbor, June 8–Sept. 6.
S. RECTUS O. S. Bar Harbor; Green Mt.; S. W. Harbor, July 7–Aug. 20.
S. TORVUS O. S. Common, June 15–Sept. 22.
S. LAXA O. S. S. W. Harbor; Bar Harbor; Salisbury Cove, June 21–Sept. 11.
S. NITENS Zett. 'Narrows,' Aug. 13.
S. JOHNSONI Curr. Bar Harbor, June 22–23.
S. LIMATUS Hine. Bar Harbor, June 13, 1921.
S. VENUSTUS Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 9–22.
S. EMARGINATUS Say. Bar Harbor, June 15–Aug. 14.
S. FELIX O. S. Echo Lake, July 17.

EPISTROPHE Walker (*Stenosyrphus* Matsumura)

E. GROSSULARIAE Meig. Bar Harbor; Green Mt., July 22–25.
E. XANTHOSTOMUS Will. Bar Harbor, July 19.
E. DIVERSIPES Macq. Common, June 8–Aug. 11.
E. UMBELLATORUM Fab. Bar Harbor; Green Mt.; Long Pond, June 11–Aug. 17.
E. GENICULATUS Macq. S. W. Harbor; Green Mt.; Bar Harbor, June 22–Sept. 11.
E. FISHERI Walt. S. W. Harbor, Aug. 22.
E. MENTALIS Will. Bar Harbor, June 8–13.
E. GENUALIS Will. Bar Harbor; Salisbury Cove; S. W. Harbor, June 7–21.
E. ARCTICUS Zett. Bar Harbor, Sept. 11, 1922.
E. SEXQUADRATUS Walk. Bar Harbor, Sept. 10, 1922.
E. ORONENSIS Metcalf. Bar Harbor, July 19.

ALLOGRAPTA Osten Sacken

A. OBLIQUA Say. Bar Harbor, July 29; Seal Harbor (D. Rockefeller).

Toxomerus Macquart

T. geminatus Say. S. W. Harbor; Bar Harbor, June 21–July 17.

T. marginatus Say. Bar Harbor; 'Narrows,' July 18–27.

Sphaerophoria St. Fargeau and Serville

S. menthastri Linn. Common, June 21–July 24.

S. novaeangliae Johns. Upper Hadlock Pond; Echo Lake, June 10–July 12.

Sphegina Meigen

S. flavimana Mall. Echo Lake; Bar Harbor, June 17–Aug. 10.

S. petiolata Coq. S. W. Harbor; Echo Lake; Bar Harbor, June 16–July 27.

Neoascia Williston

N. globosa Walk. Bar Harbor, Aug. 10.

Rhingia Scopoli

R. nasica Say. Bar Harbor; S. W. Harbor; Narrows, June 21–Aug. 13.

Hammerschmidtia Shummel

H. ferruginea Fall. Bar Harbor, June 11–17.

Brachyopa Meigen

B. diversa Johns. Bar Harbor, June 8, 1921.

Volucella Geoffroy

V. bombylans facialis var. lateralis Johns. Bar Harbor; S. W. Harbor; Echo Lake, June 7–27. The larvae are commensal in the nests of bumble bees. The flies closely resemble the various species of bumble bees.

Condidea Coquillett

C. lata Coq. Foot of Pickett Mt., June 21. On flower of the Viburnum.

C. sexfasciata Walk. South of Manset; S. W. Harbor, June 16, 1921.

Sericomyia Meigen

S. bifasciata Will. Echo Lake, June 17–July 12.
S. chrysotoxoides Macq. Bar Harbor; Echo Lake; S. W. Harbor, June 9–Sept. 8.
S. militaris Walk. S. W. Harbor; Bar Harbor; Echo Lake, June 22–Sept. 8.

Eristalis Latreille

E. arbustorum Linn. Common, June 15–Sept. 6.
E. compactus Walk. Bar Harbor; Echo Lake, June 13–17.
E. dimidiatus Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–Sept. 6.
E. nemorum Linn. Bar Harbor; Salisbury Cove, July 24.
E. tenax Linn. 'Drone fly.' Common, July 10–Sept. 22. The larva is known as the 'rat-tailed larva' and lives in putrid water.
E. saxorum Wied. Witch Hole Pond, June 13.
E. transversus Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 15–Sept. 6.
E. bastardii Macq. S. W. Harbor; Salisbury Cove; Bar Harbor, June 22–Sept. 9.
E. flavipes Walk. Bar Harbor; S. W. Harbor, June 11–July 25.

Mallota Meigen

M. posticata Fab. Bar Harbor, June 8–July 27.

Merodon Meigen

M. equestris Fab. Narcissus fly. Bar Harbor, July 25, 1916 (Metcalf); July 19, 1919 (C. W. J.). Introduced. The larva lives in Narcissus and other bulbs.

Helophilus Meigen

H. borealis Staeg. (*H. glacialis* Loew). Narrows, June 9–Aug. 13.
H. latifrons Loew. Bar Harbor, July 19.
H. fasciatus Walk. (*H. similis* Macq., not Curt.). Witch Hole Pond; Bar Harbor; S. W. Harbor, June 13–Sept. 6.

PARHELOPHILUS Girschner

R. REX Curran & Fluke. Bar Harbor, July 10.

P. LAETUS Loew. Bar Harbor; S. W. Harbor, June 13–July 10.

P. OBSOLETUS Loew. Bar Harbor; S. W. Harbor, June 13–21.

LEJOPS Rondani

L. RELICTUS Curran & Fluke (*Helophilus chrysostoma* auct., not Wied.). Bar Harbor, July 10.

L. LUNULATUS Meig. (*H. hamatus* Loew). Witch Hole Pond; Bar Harbor; Salisbury Cove, June 13–July 18.

L. (EURHIMYIA) STIPATUS Walk. (*H. conostoma* Will.). Witch Hole Pond, June 13.

POLYDONTOMYIA Williston

P. CURVIPES Wied. Narrows, June 9–Aug. 13.

EUMERUS Meigen

E. STRIGATUS Fall. Lunate onion-fly. Bar Harbor, July 25, 1916 (Metcalf); July 19, 1919 (C. W. J.).

TROPIDIA Meigen

T. QUADRATA Say. Bar Harbor; S. W. Harbor, June 11–July 25.

SYRITTA St. Fargeau and Serville

S. PIPIENS Linn. Bar Harbor; Tremont, July 14–Aug. 23.

XYLOTOMIMA Shannon

X. CURVIPES var. SATANICA Bigot. Bar Harbor, June 11; 'Mt. Desert,' July 31 (McAtee).

BRACHYPALPUS Macquart

B. OARUS Walk. (*B. frontosus* Loew). Witch Hole Pond, June 13.

XYLOTA Meigen

X. SUBFASCIATA Loew. Bar Harbor; Long Pond, June 14–July 10.

X. EJUNCIDA Say. Bar Harbor; S. W. Harbor; Long Pond, June 11–26.

X. EJUNCIDA var. ELONGATA Will. Bar Harbor, June 6–24.

X. NAKNEK ATLANTICA Shan. Bar Harbor, June 15–29.

CYNORHINA Williston

C. ANALIS Macq. Bar Harbor, June 8, 9.
C. BADIA Walk. North end, Long Pond, June 26.
C. CONFUSA Johns. Bar Harbor; Long Pond; Echo Lake, June 7–26.

SOMULA Macquart

S. DECORA Macq. Bar Harbor, June 11–15.

SPILOMYIA Meigen

S. FUSCA Loew. Bar Harbor, July 24–Aug. 16.
S. QUADRIFASCIATA Say. Witch Hole Pond, Sept. 11, 1922.

TEMNOSTOMA St. Fargeau and Serville

T. AEQUALE Loew. Bar Harbor; Green Mt.; Long Pond, June 9–July 25.
T. ALTERNANS Loew. Bar Harbor; Green Mt., June 15–July 25.
T. BOMBYLANS Fab. Bar Harbor, June 15.
T. EXCENTRICUM Harr. Bar Harbor; Witch Hole Pond, June 9–13.
T. VENUSTUM Will. Bar Harbor; Salisbury Cove, June 9.

CONOPIDAE

PHYSOCEPHALA Schiner

P. FURCILLATA Will. Bar Harbor; Great Pond; S. W. Harbor, July 24–Aug. 23.

ZODION Latreille

Z. FULVIFRONS Say. S. W. Harbor; Bar Harbor; Green Mt., July 15–25.
Z. INTERMEDIUM Banks. Bar Harbor, Aug. 16.
Z. PERLONGUM Coq. Echo Lake, July 12.

THECOPHORA Rondani (*Oncomyia* Loew)

T. ABBREVIATA Loew. Echo Lake; S. W. Harbor, June 17–July 20.
T. LORARIA Loew. Bar Harbor; Sand Beach, Great Head, July 24–Sept. 13.

PHASIIDAE

CISTOGASTER Macquart

C. OCCIDUA Walk. Common, June 18–Aug. 16.

Gymnosoma Meigen

G. dubia West. S. W. Harbor, July 19, 1923.
G. fuliginosa Desv. Common, June 7–Sept. 10.

Phasia Latreille

P. aeneoventris Will. Common, June 25–Aug. 16.
P. phasioides Coq. Bar Harbor, June 15.
P. pulverea Coq. Salisbury Cove, July 23, 1925.
P. splendida Coq. Salisbury Cove; N. E. Harbor, July 25–Aug. 23.

Trichoclytia Townsend

T. atrata Coq. N. E. Harbor, June 26 (Minot).

Gymnophania Brauer and Bergenstamm

G. montana Coq. S. W. Harbor; Salisbury Cove, June 25–July 14.

Tachinidae

Ennyommopsis Townsend

E. nigrifrons Town. Narrows, Aug. 13.

Emphanopteryx Townsend

E. prisca Walk. Bar Harbor, June 11–27.

Ocypterosoma Townsend

O. polita Coq. Long Pond, July 16.

Schizotachina Walker

S. convecta Walk. Salisbury Cove, Aug. 9, 1926.

Thryptocera Macquart

T. americana Town. N. E. Harbor, June 26–July 16 (Minot).

Actia R.-Desvoidy

A. palloris Coq. N. E. Harbor, July 6 (Minot).
A. pilipennis Fall. Common, June 9–Sept. 6.

Dichaetoneura Johnson

D. leucoptera Johns. S. W. Harbor, July 26–29, bred from the 'cherry ugly-nest' moth (*Archips cerasivorana*). Bar Harbor, Aug. 6, bred from the 'oak ugly-nest' moth (*Archips fervadana*).

CHAETOPHLEPS Coquillett

C. SETOSA Coq. S. W. Harbor, Sept. 3.

CELATORIA Coquillett

C. DIABROTICAE Shimer. Salisbury Cove, July 14.
C. SPINOSA Coq. Bar Harbor; S. W. Harbor, July 30–Sept. 6.

AUBAEANETIA Townsend

A. ASSIMILIS Town. Common, July 17–24.

PARADEXODES Townsend

P. sp. S. W. Harbor, July. Bred from Archips.

LIXOPHAGA Townsend

L. VARIABILIS Coq. S. W. Harbor, Sept. 6.

METHYPOSTENA Townsend

M. BARBATA Coq. Salisbury Cove, July 18.

PSEUDENANTHA Townsend

P. PRISTIS Walk. Salisbury Cove; Eagle Lake, July 15–18.

POLIDEA Macquart

P. AREOS Walk. Salisbury Cove; Narrows; S. W. Harbor, June 9–Sept. 6.

APINOPS Coquillett

A. ATRA Coq. S. W. Harbor, Aug. 20.

GENEA Rondani

G. TEXENSIS Town. Bar Harbor, June 18.

HYALOMYODES Townsend

H. TRIANGULIFERA Loew. Common, June 11–Sept. 6.

ELIOZETA Rondani

E. FLAVA Town. Common, July 13–26.

EUBRACHYMERA Townsend

E. DEBILIS Town. S. W. Harbor, July 15–20.

EUTRIXA Coquillett

E. EXILE Coq. Salisbury Cove, Aug. 7, 1926. Parasitic on May beetles.

Siphophyto Townsend

S. floridensis Town. Long Pond; Green Mt.; Bar Harbor, June 16–Aug. 17.

Siphona Meigen

S. geniculata De G. Bar Harbor; S. W. Harbor; N. E. Harbor, June 9–Aug. 10.

Blepharigena Rondani

B. spinulosa Bigot. Salisbury Cove, July 23.

Cyrtophloeba Rondani

C. horrida Coq. S. W. Harbor; N. E. Harbor, June 21–Aug. 11.

Voria R.-Desvoidy (*Plagia* Meigen)

V. americana V.d.W. Bar Harbor; Narrows, June 21–Aug. 11.

Cylindromyia Meigen (*Ocyptera* Latreille)

C. interrupta Meig. (*O. dosiades* Walk.). Bar Harbor; Salisbury Cove, July 22–Sept. 11.

Linnaemyia R.-Desvoidy

L. haemorrhoidalis Fall. (*L. picta* Meig.). Common, July 11–Sept. 6.

Bonnetia R.-Desvoidy

B. comta Fall. Bar Harbor, July 19–Aug. 10.

Ernestia R.-Desvoidy

E. ampelus Walk. Bar Harbor, June 23.
E. arcuata Toth. Bar Harbor, June 7–21.
E. nigropalpis Toth. Long Pond, Aug. 21.
E. platycarina Toth. N. E. Harbor (Minot); S. W. Harbor, Sept. 4–6.

Gymnochaeta R.-Desvoidy

G. vivida Will. Bar Harbor, June 21.

Nemorilla Rondani

N. maculosa Meig. (*pyste* Walk.). Long Pond; Green Mt.; S. W. Harbor, July 15–Aug. 21.

ZENILLIA R.-Desvoidy (*Exorista* auct.)

Z. EUDRYAE Town. N. E. Harbor, July 13 (Minot).

Z. HELVINA Coq. S. W. Harbor; Salisbury Cove, Aug. 11–22.

Z. (PHRYXE) CAESAR Aldr. (*E. nigripalpis* Town.). Common, Aug. 13–Sept. 6.

Z. (PHRYXE) VULGARIS Fall. Salisbury Cove; Witch Hole Pond, July 23–Sept. 11.

Z. (PAREXORISTA) AFFINIS Fall. S. W. Harbor, June 16.

Z. (PAREXORISTA) CHELONIAE Rond. Salisbury Cove, July 12.

Z. (PAREXORISTA) CONFINIS Fall. S. W. Harbor, Aug. 20.

Z. (EUSISYROPA) BLANDA O. S. (*E. boarmiae* Coq.) Green Mt.; Salisbury Cove, July 6–Aug 17. Bred from Depressaria infesting cow parsnip.

PHOROCERA R.-Desvoidy

P. COCCYX Aldr. & Webb.? Duck Brook, Sept. 11.

DORYPHOROPHAGA Townsend

D. ABERRANS Town. S. W. Harbor; Bar Harbor, Sept. 6–13. A parasite of the potato beetle.

D. DORYPHORAE Riley. S. W. Harbor, Sept. 6. Also parasitic on the potato beetle.

ACHAETONEURA Brauer and Bergenstamm (*Frontina* auct.)

A. ALETIAE Riley. Green Mt., July 25.

A. FRENCHI Will. Bar Harbor, June 22.

MYRSINA R.-Desvoidy

M. TENTHREDINIDARUM Town. Salisbury Cove; S. W. Harbor, July 10–Sept. 6.

GYMNOCARCELIA Townsend

G. RICINORUM Town. (*Sturmia albifrons* Coq.). Salisbury Cove, July 19.

PHRYNOFRONTINA Townsend

P. DISCALIS Town. S. W. Harbor; Long Pond, Aug. 20–Sept. 6.

COMPSILURA Bouché

C. CONCINNATA Meig. Long Pond, Aug. 21.

PILATEA Townsend

P. UNICOLOR Smith. Common, June 20–Sept. 13.

WINTHEMIA R.-Desvoidy

W. QUADRIPUSTULATA Fab. Common, July 16–Aug. 17.

CHAETOTACHINA Brauer and Bergenstamm

C. SIMULANS Meig. (*Tachina rustica* of authors). Common, July 11–Aug. 23.

PHORICHAETA Rondani

P. SEQUAX Will. Salisbury Cove, June 9.

EUTRICHOGENA Townsend

E. SETIPENNIS Coq. S. W. Harbor; N. E. Harbor (Minot), July 15–26.

GONIA Meigen

G. FRONTOSA Say. Bar Harbor, June 11.

G. (CNEPHLOGONIA) DISTINCTA Smith. Common, July 15–Aug. 22.

SPALLANZANIA R.-Desvoidy

S. HESPERIDARUM Will. Salisbury Cove, July 24.

PELETERIA R.-Desvoidy

P. ANAXIAS Walk. (*P. robusta* of authors). N. E. Harbor; S. W. Harbor, Aug. 23–Sept. 6.

P. CONFUSA Curr. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Sept. 11.

P. ITERANS Walk. (*P. tessellata* of authors). S. W. Harbor, Sept. 6.

ARCHYTAS Jaennicke

A. ANALIS Fab. Bar Harbor; S. W. Harbor, July 15–Sept. 6.

A. ATERRIMA Desv. Bar Harbor; Echo Lake; S. W. Harbor, July 17–Sept. 6.

FABRICIELLA Bezzi

F. ALGENS Wied. Common, July 10–Sept. 7.

F. DAKOTENSIS var. ORIENTALIS Town. S. W. Harbor, June 20–Sept. 6.

F. MONTANA Town. S. W. Harbor, June 20–July 15.

EPALPUS Rondani

E. SIGNIFERUS Walk. Bar Harbor; Echo Lake, June 9–July 19.

Bombyliopsis Townsend

B. abrupta Wied. Bar Harbor; N. E. Harbor; S. W. Harbor, July 24–Sept. 6.

Jurinia R.-Desvoidy

J. decisa Walk. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Sept. 11.

Megaprosopidae

Microphthalma Macquart

M. disjuncta Wied. Witch Hole Pond, Sept. 11.

M. michiganensis Town. Salisbury Cove, Aug. 9.

Dexiidae

Ptilodexia Brauer and Bergenstamm

P. harpasa Walk. Common, June 7–Aug. 14. The larva is parasitic on 'white grubs,' the larvae of the May beetles (Phyllophaga).

Thelaira R.-Desvoidy

T. nigripes Fab. Bar Harbor, June 23–Sept. 10.

Ochrocera Townsend

O. vaginalis Town. Bar Harbor, Aug. 10.

Opsodexia Townsend

O. bicolor Coq. Witch Hole Pond, Sept. 11.

Spathidexia Townsend

S. clemonsi Town. Salisbury Cove, July 13.

Estheria R.-Desvoidy

E. tibialis Desv. Salisbury Cove (Sanford); S. W. Harbor, Aug. 7–Sept. 6.

Dinera R.-Desvoidy

D. futilis West. S. W. Harbor; Long Pond; Salisbury Cove, July 16–23.

Sarcophagidae

Brachycoma Rondani

B. sarcophagina Town. S. W. Harbor; Eagle Lake, June 21–July 18. Parasitic on the larvae in the nests of bumble bees.

Metopia Meigen

M. leucocephala Rossi. Long Pond; S. W. Harbor, July 16–Aug. 22.

M. campestris Fall. N. E. Harbor; Long Pond, July 17–Aug. 21.

Pachyophthalmus Brauer and Bergenstamm

P. signatus Meig. Common, July 11–Aug. 13.

Senotainia Macquart

S. trilineata V.d.Wulp. Salisbury Cove; Sargent Mt., July 24–Aug. 8.

Wohlfahrtia Brauer and Bergenstamm

W. vigil Walk. Salisbury (Cove), July 24.

Agria R.-Desvoidy

A. affinis Fall. Echo Lake, July 12.

Helicobia Coquillett

H. helicis Town. S. W. Harbor, Sept. 8.

Sarcophaga Meigen

S. atlanis Aldr. Salisbury Cove, July 18.

S. bisetosa Park. S. W. Harbor; N. E. Harbor; Salisbury Cove, July 10–Aug. 9.

S. cimbicis Town. S. W. Harbor; N. E. Harbor; Bar Harbor, June 21–July 19.

S. fletcheri Aldr. Salisbury Cove, July 18.

S. latisterna Park. S. W. Harbor, Aug. 20–23.

S. scoparia var. nearctica Park. S. W. Harbor; Echo Lake; Witch Hole Pond, June 21–Sept. 8.

S. sinuata Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 14–Sept.

S. (Ravinia) communis Park. Salisbury Cove, June 9.

S. (Ravinia) peniculata Park. Echo Lake; S. W. Harbor, June 17–Sept. 6.

Calliphoridae

Protocalliphora Hough

P. splendida form sialia Shan. & Dobro. S. W. Harbor, June 26. The larva is parasitic on nestling birds.

PHORMIA R.-Desvoidy

P. REGINA Meig. Common, July 15–Sept. 11.

PROTOPHORMIA Townsend

P. TERRAENOVAE Desv. Bar Harbor; Salisbury Cove, July 22–Aug. 5.

CYNOMYIA R.-Desvoidy

C. CADAVERINA Desv. S. W. Harbor; Bar Harbor, June 22–July 15.

CALLIPHORA R.-Desvoidy. Blue-bottle flies

C. VOMITORIA Linn. Jordan Pond; Newport Cove, June 10–July 11.

C. VOMITORIA var. NIGRIBARBIS Shan. Common, July 11–Sept. 22.

C. ERYTHROCEPHALA Meig. Bar Harbor; Salisbury Cove, July 20–Sept. 9.

LUCILIA R.-Desvoidy. Green-bottle flies

L. CAESAR Linn. Common, July 10–Sept. 22.

L. SYLVARUM Meig. Bar Harbor, July 29–Aug. 15.

POLLENIA R.-Desvoidy. Cluster fly

P. RUDIS Fab. Common, June 17–Sept. 6.

MUSCIDAE

STOMOXYS Geoffroy

S. CALCITRANS Linn. Biting house-fly. Bar Harbor; Salisbury Cove, July 31–Aug. 10.

LYPEROSIA Rondani

L. IRRITANS Linn. Horn fly. Bar Harbor; Salisbury Cove, July 25–30.

MUSCINAE

MUSCA Linnaeus

M. DOMESTICA Linn. House fly. Not common, July 10–Sept. 22.

CRYPTOLUCILIA Brauer and Bergenstamm

C. CAESARION Meig. S. W. Harbor; Salisbury Cove; Narrows, July 23–Sept. 12.

Pyrellia R.-Desvoidy

P. serena Meig. Salisbury Cove, July 15.

Morellia R.-Desvoidy

M. micans Macq. Common, June 9–Aug. 25.

Graphomyia R.-Desvoidy

G. maculata Scop. Common, July 10–Sept. 7.

Muscina R.-Desvoidy

M. assimilis Fall. Common, July 13–Sept. 10.

M. stabulans Fall. Stable fly. Common, July 8–Sept. 9.

M. pascuorum Meig. Salisbury Cove, Aug. 7 and 8, 1926. A European species first recorded from America in 1922 (see Psyche, vol. 30, pp. 1–5, 1923).

Myiospila Rondani

M. meditabunda Fab. Eagle Lake, July 19.

Anthomyiinae

Bigotomyia Malloch

B. houghi Stein. Echo Lake; Bar Harbor, July 17–Aug. 17.

Phaonia R.-Desvoidy

P. apicata Johan. Common, July 12–Aug. 21.

P. bysia Walk. Common, June 21–July 19.

P. cayugae Johan. (*P. nigricans* Johan, not Stein.). Bar Harbor; N. E. Harbor, July 14–Aug. 23.

P. curvipes Stein. Eagle Lake; Long Pond, July 18–Aug. 21.

P. errans Meig. Bar Harbor, July 26.

P. errans var. completa Mall. N. E. Harbor, June 26; Bar Harbor, Sept. 10.

P. rufibasis Mall. Salisbury Cove, Aug. 6.

P. serva Meig. Common, June 11–Sept. 10.

P. fusca Stein. S. W. Harbor, Sept. 6.

Alloeostylus Schnabl

A. diaphanus Wied. Common, June 15–Aug. 21.

Dialyta Meigen

D. flavitibia Johan. Salisbury Cove; Hadlock Pond; S. W. Harbor, June 10–July 20.

Tricopticus Rondani

T. innocuus Zett. Echo Lake; S. W. Harbor, June 17–July 11.

T. latipennis Mall. S. W. Harbor, June 21, 1921.

T. spiniger Stein. Echo Lake; S. W. Harbor, June 17–Aug. 23.

Pogonomyia Rondani

P. flavinervis Mall. S. W. Harbor, June 22–24.

Hydrotaea R.-Desvoidy

H. armipes Fall. Salisbury Cove, July 24.

H. cristata Mall. Salisbury Cove, July 24.

H. houghi Mall. Bar Harbor, Sept. 9.

H. militaris Meig. Common, June 17–Aug. 20.

Ophyra R.-Desvoidy

O. leucostoma Wied. Common, June 22–Aug. 22.

Fannia R.-Desvoidy

F. canicularis Linn. Little house fly. Common, June 20–Sept. 22.

F. carbonaria Meig. Common, June 17–Sept. 5.

F. depressa Stein. S. W. Harbor, Aug. 22.

F. flavibasis Stein. Duck Brook, July 30.

F. fuscula Fall. Echo Lake; Bar Harbor, July 12–22.

F. incissurata Zett. Bar Harbor; Salisbury Cove, July 19–24.

F. kowarzii Verr. Jordan Pond; S. W. Harbor, June 10–18.

F. minutipalpis Stein. S. W. Harbor; Long Pond; Bar Harbor, June 16–Sept. 9.

F. scalaris Zett. S. W. Harbor; Salisbury Cove, June 20–July 19.

F. serena Fall. Echo Lake; S. W. Harbor; Eagle Lake, July 12–30.

F. sociella Zett. S. W. Harbor, July 30–Aug. 21.

Coelomyia Haliday

C. subpellucens Zett. S. W. Harbor, June 25–27.

Platycoenosia Strobl

P. miki Strobl. Bar Harbor, July 20.

Azelia R.-Desvoidy

A. cilifes Zett. Bar Harbor, Aug. 15.

Hebecnema Schnabl

H. affinis Mall. Bar Harbor; Echo Lake, June 7–17.

Mydaea R.-Desvoidy

M. discimana Mall. Common, June 13–July 15.

M. hirtiventris Mall. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Aug. 16.

M. occidentalis Mall. Bar Harbor; N. E. Harbor, June 7–Aug. 15.

M. pagana Fab. Bar Harbor, June 7.

M. urbana Meig. Bar Harbor; N. E. Harbor, July 17–22.

Helina R.-Desvoidy

H. brevis Stein. S. W. Harbor, July 13.

H. johnsoni Mall. S. W. Harbor, June 8.

H. lucorum Fall. Common, June 8–Aug. 21.

H. lysinoe Walk. Bar Harbor, Sept. 9–11.

H. marmorata Zett. Common, June 16–July 27.

H. multisetosa Schnabl. Bar Harbor; Long Pond, Sept. 4–7.

H. nigricans Stein. Bar Harbor, June 21.

H. pectinata Johan. (H. mimetica Mall.). Common, June 7–July 22.

Spilogona Schnabl

S. aerea Fall. S. W. Harbor, June 21.

S. alticola Mall. Bar Harbor, June 7.

S. caroli Mall. Duck Brook; Green Mt.; Echo Lake, June 13–July 17.

S. clivicola Mall. Echo Lake; S. W. Harbor, June 17–20.

S. suspecta Mall. Bar Harbor; Echo Lake, June 15–17.

S. tetrachaeta Mall. Duck Brook; Bar Harbor, June 15–July 30.

Paralimnophora Malloch

P. velutina Mall. Bar Harbor; S. W. Harbor; Salisbury Cove, June 17–July 15.

Limnospila Schnabl

L. albifrons Zett. Salisbury Cove; Narrows; S. W. Harbor, July 25–Aug. 23.

PHYLLOGASTER Stein

P. CORDYLUROIDES Stein. Salisbury Cove; Narrows, July 24–27.

TETRAMERINX Berg

T. UNICA Stein. Narrows, Aug. 13.

LISPOCEPHALA Pokorny

L. ALMA Meig. S. W. Harbor, Sept. 6.

L. ALMA var. PALLIPALPIS Zett. Echo Lake; Eagle Lake, July 12–18.

L. ERYTHROCERA Desv. Common, July 12–Aug. 23.

LISPA Latreille

L. ALBITARSIS Stein. Common, June 13–Sept. 13.

L. JOHNSONI Aldr. Newport Cove; Great Head, Sept. 13.

L. SOCIABILIS Loew. Witch Hole Pond, June 13.

L. TENTACULATA De G. Witch Hole Pond; S. W. Harbor; Newport Cove, June 13–Sept. 13.

L. ULIGINOSA Fall. Bar Harbor, June 13–Aug. 29.

FUCILLIA R.-Desvoidy

F. MARITIMA Halid. Kelp fly. Common, June 20–July 15.

ANTHOMYIA Meigen

A. PLUVIALIS Linn. Common, June 21–July 17.

PEGOMYIA R.-Desvoidy

P. AFFINIS Stein. (*P. vicina* St., not Lint.). N. E. Harbor, Sept. 24 (Minot).

P. BICOLOR Wied. Common, June 21–July 20.

P. CALYPTERATA Zett. Echo Lake, June 17.

P. CONNEXA Stein. (*P. emmesia* Mall.). Echo Lake; Long Pond, June 17–Aug. 26.

P. DISSECTA Meig. Salisbury Cove, July 24.

P. FUSCOFASCIATA Mall. Bar Harbor; Echo Lake, June 13–Sept. 7.

P. GENICULATA Bouché. Bar Harbor; Echo Lake, June 7–July 12.

P. HYOSCYAMI Panz. (*P. vicina* Lint.). Common, June 7–July 3. The larva mines the leaves of beets and dock.

P. JUVENILIS Stein. Eagle Lake; Witch Hole Pond, July 18–30.

P. LITTORALIS Mall. Long Pond; Bar Harbor; Green Mt., July 16–24.

P. LUTEOLA Mall. Echo Lake; Bar Harbor, July 12–Sept. 7.

P. VITTIGERA Zett. Common, July 17–30.

P. WINTHEMI Meig. Bar Harbor; S. W. Harbor, July 30–Sept. 8.

HYDROPHORIA R.-Desvoidy

H. PROXIMA Mall. Witch Hole Pond; Salisbury Cove, June 13–July 18.

H. DIVISA Meig. Salisbury Cove, July 14.

H. UNIFORMIS Mall. Salisbury Cove, Aug. 11.

H. (ACROPTENA) AMBIGUA Fall. Bar Harbor; Echo Lake, June 14–July 20.

EUSTALOMYIA Kowarz

E. BRIZIA Walk. N. E. Harbor, July 16 (Minot).

HYLEMYIA R.-Desvoidy

H. ALCATHOE Walk. Bar Harbor; S. W. Harbor, June 13–21.

H. ANTIQUA Meig. 'Onion maggot.' Echo Lake, June 17.

H. BRASSICAE Bouché. 'Cabbage maggot.' S. W. Harbor, July 13.

H. COENOSIAEFORMIS Stein. Common, June 17–Aug. 18.

H. DEPRESSA Stein. S. W. Harbor; Salisbury Cove, June 16–July 24.

H. INNOCUA Mall. Echo Lake; Eagle Lake; Bar Harbor, July 12–Aug. 16.

H. INORNATA Stein. Common, June 18–July 10.

H. LATIPENNIS Zett. Common, June 10–July 27.

H. PLUVIALIS Mall. S. W. Harbor, July 13.

H. TRIVITTATA Stein. (*H. longicauda* Mall.). Common, July 15–29.

Subgenus CHORTOPHILA Macquart

H. CILICRURA Rond. (*fusciceps* auct.). Common, June 7–Aug. 14.

H. LAEVIS Stein. Bar Harbor, Aug. 10.

H. TRICHODACTYLA Rond. S. W. Harbor; Bar Harbor, July 11–19.

PAREGLE Schnabl and Dziedzicki

P. AESTIVA Meig. S. W. Harbor, July 11.

P. CINERELLA Fall. Echo Lake; Salisbury Cove, July 12–25.

P. RADICUM Linn. Salisbury Cove, July 24.

POGONOMYZA Schnabl and Dziedzicki

Referred to *Pycnoglossa* Coq. in error in List New England Diptera.

P. FLAVIPENNIS Fall. Witch Hole Pond; S. W. Harbor, June 13–July 30.

P. PROBOSCIDALIS Mall. Echo Lake, July 12.

PROSALPIA Pokorny

P. ANGUSTITARSIS Mall. Common, July 12–25.

P. SILVESTRIS Fall. S. W. Harbor; Bar Harbor, July 16–21.

HYLEPHILA Rondani (*Hammomyia* auct.)

H. MARYLANDICA Mall. S. W. Harbor; Echo Lake, June 16–17.

MACRORCHIS Rondani

M. AUSOBA Walk. Bar Harbor, July 3.

COENOSIA Meigen

C. COMPRESSA Stein. Bar Harbor; Eagle Lake, July 18–20.

C. FUSCIFRONS Mall. Bar Harbor, Aug. 10–29.

C. HUMILIS Meig. Bar Harbor; N. E. Harbor, June 21–Sept. 4.

C. LATA Walk. S. W. Harbor, Aug. 23.

C. NIGRESCENS Stein. S. W. Harbor; Tremont; Echo Lake, June 30–Sept. 7.

C. NUDISETA Loew. Bar Harbor, Sept. 11.

MACROCOENOSIA Malloch

M. TRISETA Stein. Common, June 7–July 30.

HOPLOGASTER Rondani

H. NIGRITARSIS Stein. Common, July 18–30.

SCHOENOMYZA Haliday

S. CHRYSOSTOMA Loew. Common, June 8–Aug. 13.

S. DORSALIS Loew. S. W. Harbor, June 16.

S. LITTORELLA Zett. Salisbury Cove; Bar Harbor, July 12–Sept. 13.

SCATOPHAGIDAE

CORDILURA Fallén

C. CARBONARIA Walk. Echo Lake, June 17.

C. NANA Loew. Common, June 26–July 24.

C. SETOSA Loew. Echo Lake, June 17–July 17.

C. TRICINCTA Loew. Duck Brook; Bar Harbor; Salisbury Cove, June 13–July 6.

C. VARIABILIS Loew. Upper Hadlock Pond; Seal Cove, June 17–20.

ORTHACHETA Becker (*Orthochaeta* auct.)

O. CORNUTA Loew. Duck Brook, June 13.

PARALLELOMMA Becker

P. DIMIDIATA Cress. Bar Harbor, June 7.

P. PLEURITICA Loew. Upper Hadlock Pond; Bar Harbor, June 10–13.

P. GRACILIPES Loew. Bar Harbor, July 10.

AMERICINA Malloch

A. ADUSTA Loew. Bar Harbor, July 29.

A. INERMIS Loew. Bar Harbor, July 24.

ACHAETELLA Malloch

A. VARIPES Walk. Salisbury Cove; Bar Harbor, July 15–Aug. 9.

AMAUROSOMA Becker

A. BRUNNEICOSTA Johns. Echo Lake, June 27.

TRICHOPALPUS Rondani

T. PALPALIS Coq. Narrows; Salisbury Cove; Newport Cove, July 11–29.

T. PUNCTIPES Meig. Salisbury Cove; Newport Cove, July 11–15.

SCATOPHAGA Meigen

S. STERCORARIA Linn. Common, June 20–July 26.

S. MERDARIA Fab. S. W. Harbor, July 18.

S. LITOREA Fall. Narrows, July 27–Sept. 12.

S. FURCATA Say. Bar Harbor; N. E. Harbor (Minot), June 8–July 16.

S. LUTARIA Fall. Green Mt., July 25.

S. SUILLA Fab. Bar Harbor; Echo Lake; Green Mt., June 8–July 25.

CERATINOSTOMA Mead

C. OSTIORUM Halid. Common, June 9–July 27.

EUGENACEPHALA Johnson

E. SALSA Johns. Narrows; S. W. Harbor, Aug. 13–26 (Alexander).

HYDROMYZA Fallén

H. CONFLUENS Loew. Bar Harbor, July 24. On lily pads.

HELOMYZIDAE

SUILLIA R.-Desvoidy (*Helomyza* auct.)

S. APICALIS Loew. S. W. Harbor; Long Pond; Echo Lake, July 15–Sept. 7.

S. LONGIPENNIS Loew. Echo Lake, July 17.

S. PLUMATA Loew. Bar Harbor, July 20.

TEPHROCHLAMYS Loew

T. CANESCENS Meig. Bar Harbor; N. E. Harbor, June 14–Aug. 20.

ALLOPHYLLA Loew

A. LAEVIS Loew. Common, June 11–Sept. 7.

SCOLIOCENTRA Loew

S. HELVOLA Loew. Echo Lake; N. E. Harbor; Bar Harbor, July 12–Sept. 11.

NEOLERIA Malloch

N. DISCOLOR Loew. Bar Harbor, June 21–23.

N. LEUCOSTOMA Loew. Bar Harbor; Echo Lake, June 21–Sept. 11.

CLUSIIDAE

CLUSIA Haliday

C. CZERNYI Johns. N. E. Harbor (Minot), July 1–25.

C. LATERALIS Walk. N. E. Harbor (Minot), July 4.

CLUSIODES Coquillett

C. AMERICANA Mall. Green Mt., July 25.

C. (CLUSIARIA) ORBITALIS Mall. Bar Harbor, June 13, 1921. Type locality.

C. (Columbiella) johnsoni Mall. Echo Lake, July 12. Type locality.
C. (Columbiella) nigripalpis Mall. Bar Harbor, June 17.

Borboridae

Leptocera Olivier

L. (Collinella) lutosa Stenh. Bar Harbor, Aug. 10.
L. (Scatophilella) carinata Spul. Bar Harbor, Aug. 15.

Borborus Meigen

B. equinus Fall. Bar Harbor; S. W. Harbor, June 22–July 11.

Sciomyzidae

Neuroctena Rondani

N. anilis Fall. Common, July 10–25.
N. simplex Loew. Common, July 12–30.

Dryomyza Fallén

D. dayi Cress. Echo Lake, July 12.
D. ferruginea Mel. Bar Harbor, June 13.

Sciomyza Fallén

S. aristalis Coq. Eagle Lake, July 18.

Atrichomelina Cresson

A. pubera Loew. Bar Harbor, June 11.

Pherbellia R.-Desvoidy

P. albovaria Coq. Witch Hole Pond; Bar Harbor, Aug. 18.
P. grisescens Meig. Bar Harbor, Aug. 10.
P. nana Fall. S. W. Harbor, June 20.
P. tenuipes Loew. Long Pond, June 20.
P. vitalis Cress. Sand Beach, Great Head, July 11.

Trypetoptera Hendel

T. canadensis Macq. (*T. pallida* Loew). Eagle Lake, July 18.

Hoplodictya Cresson

H. setosa Coq. Narrows, July 27–Aug. 13.

DICTYA Meigen

D. UMBRARUM Linn. Bar Harbor, July 20.

LIMNIA R.-Desvoidy

L. BOSCII Desv. Common, July 17–Aug. 11.
L. BOSCH var. SPARSA Loew. Common, June 13–July 30.
L. COSTALIS Loew. Eagle Lake, July 18.
L. SARATOGENSIS Fitch. Common, June 15–Sept. 13.

TETANOCERA Duméril

T. CLARA Loew. Duck Brook; Bar Harbor, Aug. 18.
T. VALIDA Loew. Common, July 16–Aug. 7.
T. VICINA Macq. S. W. Harbor; Salisbury Cove, July 11–Aug. 11.
T. TRIANGULARIS Loew. Witch Hole Pond; Salisbury Cove, July 30–Aug. 7.
T. PLEBEIA Loew. Common, July 2–24.
T. ELATA Fab. Narrows, July 27.
T. ROTUNDICORNIS Loew. S. W. Harbor, July 15.
T. UNICOLOR Loew. S. W. Harbor; Bar Harbor, July 15–Aug. 10.

ELGIVA Meigen

E. LINEATA Fall. Salisbury Cove, July 8–24 (Sanford). Common in meadow south of the town, Aug. 7–11.

SEPEDON Latreille

S. PUSILLUS Loew. Upper Hadlock Pond; Bar Harbor, June 10–Aug. 18.

SAPROMYZIDAE

LAUXANIA Latreille

L. CYLINDRICORNIS Fab. Common, June 26–July 30.

MINETTIA R.-Desvoidy

M. AMERICANA Mall. (*M. longipennis* auct.). Bar Harbor, June 15.
M. LUPULINA Fab. Common, June 26–July 21.
M. OBSCURA Loew. S. W. Harbor, July 13.

Sapromyza Fallén

S. annulata Mel. Bar Harbor; Echo Lake; S. W. Harbor, June 15–July 12.
S. brachysoma Coq. Bar Harbor, June 8.
S. obtusilamellata Mall. Bar Harbor, June 7.
S. quadrilineata Loew. Bar Harbor, July 22.
S. rotundicornis Loew. Echo Lake; Bar Harbor; N. E. Harbor, July 17–Aug. 11.
S. serrata Mall. Bar Harbor, June 11.

Sapromyzosoma Malloch

S. citrifrons Mall. Bar Harbor; Long Pond, June 13–Aug. 21.
S. compedita Loew. N. E. Harbor; S. W. Harbor; Bar Harbor, July 6–30.
S. deceptor Mall. Sand Beach, Great Head; Long Pond, July 13–16.
S. disjuncta Johns. Common, June 13–July 12.
S. fraterna Loew. Green Mt., Aug. 17.
S. frontalis Loew. N. E. Harbor (Minot); Bar Harbor, July 1–11.
S. incerta Mall. Bar Harbor (McAtee); Long Pond, July 30–Aug. 21.
S. philadelphica Macq. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 10.
S. sheldoni Coq. Witch Hole Pond, July 30.

Lonchaeidae

Lonchaea Fallén

L. affinis Mall. S. W. Harbor; Echo Lake; Bar Harbor, June 13–July 20.
L. albiceps Mall. Bar Harbor; N. E. Harbor, July 20–Aug. 10.
L. angustitarsis Mall. Echo Lake, July 12.
L. nigrociliata Mall. S. W. Harbor, July 11.
L. laticornis Meig. Bar Harbor, Aug. 10.
L. polita Say. Salisbury Cove, June 9.
L. vaginalis Fall. Bar Harbor, June 11.

PALLOPTERIDAE

PALLOPTERA Fallén

P. SUBARCUATA Johns. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 13.

P. SUPERBA Loew. N. E. Harbor, June 26 (Minot).

ORTALIDAE

RIVELLIA R.-Desvoidy

R. VIRIDULANS Desv. Salisbury Cove, July 13–Aug. 9.

TEPHRONOTA Loew

T. NARYTIA Walk. Sand Beach, Great Head; Salisbury Cove, July 11–18.

PSEUDOTEPHRITIS Johnson

P. VAU var. CONJUNCTA Johns. Bar Harbor, Aug. 10.

PSAIROPTERA Wohlberg

P. NUBECULA Johns. N. E. Harbor, July 6 (Minot).

CHAETOPSIS Loew

C. AENEA Wied. Common on the salt marshes; Narrows, June 9–July 27.

C. APICALIS var. DUPLICATA Johns. Common on the salt marshes; Narrows, June 9–July 27.

C. MASSYLA Walk. Common on the 'Great Heath' and fresh-water meadows, July 15–Sept. 11.

C. FULVIFRONS Macq. Bar Harbor, Aug. 10–16.

SEIOPTERA Kirby

S. VIBRANS Linn. Jordan Pond, July 10.

S. DUBIOSA Johns. N. E. Harbor, July 16 (Minot).

TRYPETIDAE

ZONOSEMA Loew

Z. FLAVONOTATA Macq. N. E. Harbor, Aug. 10 (Minot).

ACIURA R.-Desvoidy

A. NIGRICORNIS Doane. Long Pond; Salisbury Cove, June 20–July 18.

RHAGOLETIS Loew

R. FAUSTA O. S. Bar Harbor, June 11. The larvae infest cherries.

Terellia R.-Desvoidy

T. florescentiae Linn. Common, July 14–Aug. 13. The larvae live in the flower buds of the Canada thistle (*Cirsium arvense*).

Neaspilota Osten Sacken

N. achilleae Johns. Salisbury Cove; S. W. Harbor, July 24–28. Frequents the flow buds of yarrow (*Achillea millefolium*).

Eutreta Loew

E. sparsa Wied. Bar Harbor, Aug. 15. The larvae form root-galls on goldenrod.

Eurosta Loew

E. asteris Harr. (*E. solidaginis* Fitch). Salisbury Cove. The larvae form round galls on the stalks of goldenrod.

E. latifrons Loew. Eagle Lake, July 19.

Euaresta Loew

E. angustipennis Loew. Bar Harbor, June 7.

E. bella Loew. Salisbury Cove, July 14–24.

E. pura Loew. Salisbury Cove, July 13–14.

Tephritis Latreille

T. albiceps Loew. Common, July 11–Aug. 13.

Micropezidae

Calobata Meigen

C. pallipes Say. Salisbury Cove, July 14.

C. univitta Walk. Bar Harbor, June 15–July 14.

Tanypeza Fallén

T. luteipennis Knab & Shan. Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 7–July 24.

Sepsidae

Sepsis Fallén

S. signifera Mel. & Spul. Bar Harbor, July 30.

S. signifera var. curvitibia Mel. & Spul. Bar Harbor, July 17.

S. violacea Meig. Echo Lake, June 17.

Meroplius Rondani

M. stercorarius Desv. S. W. Harbor, July 13.

Nemopodia R.-Desvoidy

N. cylindrica Fab. S. W. Harbor; Salisbury Cove; Duck Brook, July 10–30.

Themira R.-Desvoidy

T. minor Haliday. S. W. Harbor; Narrows, June 28–Aug. 30.
T. putris Linn. S. W. Harbor, July 10–13.

Saltella R.-Desvoidy

S. scutellaris Fall. Narrows, Aug. 13.

Piophilidae

Piophila Fallén

P. casei Linn. Cheese-maggot fly. Bar Harbor; Salisbury Cove, June 7–July 25.
P. nigriceps Meig. Bar Harbor; S. W. Harbor, June 8–July 11.
P. oriens Mel. & Spul. Bar Harbor, June 22.

Mycetaulus Loew

M. pulchellus Banks. Bar Harbor, Sept. 10–11.

Psilidae

Loxocera Meigen

L. collaris Loew. Flying Mt.; Echo Lake, Aug. 26–29 (Alexander).
L. cylindrica var. pleuritica Loew. Echo Lake; Long Pond; Witch Hole Pond, June 17–July 30.

Pseudopsila Johnson

P. collaris Loew. Upper Hadlock Pond; Bar Harbor, June 11–Sept. 11.
P. fallax Loew. Bar Harbor; Long Pond; S. W. Harbor, Aug. 16–22.
P. perpolita Johns. Duck Brook; Sand Beach near Great Head, Sept. 11–13.

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Psila Meigen

P. bicolor Meig. Bar Harbor; S. W. Harbor, July 17–22.
P. levis Loew. Bar Harbor; S. W. Harbor, June 11–21.
P. longula Johns. Echo Lake; Bar Harbor; Green Mt., July 17–25.

Notiphilidae

Clanoneurum Becker

C. cimiciformis Halid. Marsh at the Narrows, Aug. 15, 1920.

Psilopa Fallén

P. atrimana Loew. Bar Harbor, July 24; S. W. Harbor, Sept. 6.
P. leucostoma Meig. Narrows, July 27.

Trimerina Macquart

T. madizans Fall. Bar Harbor, Aug. 16.

Rhysophora Cresson

R. robusta Cress. Witch Hole Pond, July 30.

Ditrichophora Cresson

D. exigua Cress. Bar Harbor, July 22, 1919.
D. parilis Cress. Bar Harbor, Aug. 18.

Discocerina Macquart

D. leucoprocta Loew. Narrows, June 9.

Hydrellia R.-Desvoidy

H. formosa Loew. Bar Harbor, Aug. 12–16.
H. obscuripes Loew. Bar Harbor, Aug. 16.
H. scapularis Loew. Narrows, July 27–Aug. 13.
H. tibialis Cress. Bar Harbor, Aug. 10.
H. valida Loew. Narrows, July 27–Aug. 13.

Ilythea Haliday

I. spilota Curtis. Common, June 27–Aug. 21.

Notiphila Fallén

N. loewi Cress. (*N. unicolor* Loew, not Walker). Bar Harbor, June 22.
N. vittata Loew. Bar Harbor, July 20–26.

N. ATRIPES Cress. Narrows, Aug. 13.
N. BISPINOSA Cress. Narrows, July 27–Aug. 13.
N. OLIVACEA Cress. Bar Harbor, July 26.

DICHAETA Meigen

D. CAUDATA Fall. Witch Hole Pond, June 13.

PHILYGRIA Stenhammer

P. DEBILIS Loew. Green Mt.; Long Pond, July 25–Sept. 7.

EPHYDRIDAE

LYTOGASTER Becker

L. GRAVIDA Loew. Bar Harbor, July 24.

NAPAEA R.-Desvoidy

N. ALPINA Cress. Long Pond; Bar Harbor, July 16–Aug. 10.
N. IMITANS Loew. Narrows, Sept. 12.
N. VARIA Loew. Duck Brook; Bar Harbor, Aug. 18.

PARYDRA Stenhammer

P. BITUBERCULATA Loew. Bar Harbor, Aug. 10.
P. QUADRITUBERCULATA Loew. Bar Harbor, July 20.

OCHTHERA Latreille

O. MANTIS De G. Bar Harbor, July 26.

BRACHYDEUTERA Loew

B. ARGENTATA Walk. S. W. Harbor, June 24.

EPHYDRA Fallén

E. SUBOPACA Loew. Narrows, Aug. 13.

CIRRULA Cresson

C. GIGANTEA Cress. Narrows, Aug. 13–Sept. 12.

DIMECOENIA Cresson

D. SPINOSA Loew. 'Narrows,' Aug. 13–Sept. 12.

SCATELLA R.-Desvoidy

S. LUGENS Loew. Bar Harbor, June 11; S. W. Harbor, July 13.
S. STENHAMMERI Zett. Echo Lake, June 17; S. W. Harbor, July 11.

Scatophila Becker

S. variabilis Cress. S. W. Harbor, Aug. 20.

Chloropidae

Meromyza Meigen

M. americana Fitch. Echo Lake; Salisbury Cove, July 12–18.
M. flavipalpis Mall. S. W. Harbor, Sept. 8.

Cetema Hendel (*Center* Loew)

C. subvittata Loew. Witch Hole Pond; Bar Harbor, July 30.

Epichlorops Becker

E. exilis Coq. Salisbury Cove, July 15.

Chloropisca Loew

C. glabra Meig. (*C. assimilis* Macq.). S. W. Harbor, July 14.
C. grata Loew. S. W. Harbor; Bar Harbor, July 11–22.
C. rufescens Coq. Salisbury Cove, July 18.
C. variceps Loew. Salisbury Cove; Narrows, Aug. 13–25.

Diplotoxa Loew

D. versicolor Loew. Common, July 17–Aug. 23.

Anthracophaga Loew

A. sanguinolenta Loew. Bar Harbor; S. W. Harbor, June 8 July 14.

Chlorops Meigen

C. melanocera Loew. S. W. Harbor, July 13.
C. obscuricornis Loew. Narrows, June 9–Aug. 13.
C. proxima Say. Common, June 17–July 14.
C. scabra Coq. Tremont, Aug. 23.
C. subnigra Coq. S. W. Harbor; Salisbury Cove; Bar Harbor, July 11–Aug. 12.

Parectecephala Becker

P. eucera Loew. Common, June 9–Aug. 21.

Ectecephala Macquart

E. similis Beck. Bar Harbor, July 21.

GAURAX Loew

G. DORRI Johns. Long Pond; Bar Harbor, June 15–27.
G. INTERRUPTA Mall. Long Pond, July 16.
G. EPHIPPIUM Zett. Bar Harbor, Aug. 10.

CRASSISETA von Roser

C. NIGRICEPS Loew. Common, July 27–Aug. 16. Bred from cow parsnip bored by *Depressaria heracliana*.
C. COSTATA Loew. Salisbury Cove, July 15–30.

MELANOCHAETA Bezzi

M. DECIPIENS Loew. Common, June 7–Aug. 10.
M. EUNOTA Loew. 'Mt. Desert,' July 30 (McAtee).
M. LONGULA Loew. S. W. Harbor; Salisbury Cove; Bar Harbor, July 14–Aug. 18.
M. FLANICOLLIS Beck. Witch Hole Pond, Aug. 18.

HIPPELATES Loew

H. FLAVIPES Loew. S. W. Harbor, July 19.

MADIZA Fallén (*Siphonella* Macquart)

M. NEGLECTA Beck. 'Mt. Desert,' July 30 (McAtee).
M. NIGRIPALPIS Mall. Tremont; S. W. Harbor; Bar Harbor, Aug. 23–Sept. 9.
M. OSCININA Fall. S. W. Harbor; Green Mt.; Salisbury Cove, July 17–Aug. 26.
M. SETULOSA Mall. 'Mt. Desert,' July 30.

BOTANOBIA Lioy (*Oscinis* auct.)

B. COXENDIX Fitch. Common, July 16–27.
B. FRIT Linn. Frit fly. Narrows, July 27.
B. FRIT var. PUSILLA Meig. Narrows, July 14.
B. INFESTA Beck. Common, July 27–Aug. 14.
B. NITIDISSIMA Meig. (*O. variabilis* Loew). S. W. Harbor, July 13.
B. NUDIUSCULUS Loew. 'Mt. Desert,' July 21 (McAtee).
B. TRIGRAMMA Loew. Narrows; Tremont; Salisbury Cove, Aug. 13–23.

DROSOPHILIDAE

AMIOTA Loew (*Phortica* Schiner)

A. HUMERALIS Loew. Green Mt.; Bar Harbor, July 25–Aug. 16.

A. LEUCOSTOMA Loew. Upper Hadlock Pond; Bar Harbor; Echo Lake, June 10–July 17.

A. MINOR Mall. Bar Harbor; Witch Hole Pond, June 16–Aug. 18.

STEGANA Meigen

S. COLEOPTRATA Scop. Duck Brook; N. E. Harbor; Echo Lake, June 13–Aug. 17.

CHYMOMYZA Czerny

C. AMOENA Loew. Salisbury Cove, July 18.

DROSOPHILA Fallén

D. FUNEBRIS Fab. N. E. Harbor, Aug. 29 (Minot); Echo Lake, Sept. 7.

D. TRANSVERSA Fall. Common, July 17–Aug. 24.

D. MELANOGASTER Meig. Robinson Mt., Sept. 7.

SCAPTOMYZA Hardy

S. GRAMINUM Fall. Narrows; S. W. Harbor, July 13–Sept. 6.

ASTEIIDAE

ASTEIA Meigen

A. BEATA Aldr. S. W. Harbor, July 13, 1919.

GEOMYZIDAE

DIASTATA Meigen

D. REPLETA Walk. (*D. pulchra* Loew). Salisbury Cove, July 18.

D. VAGANS Loew. Salisbury Cove; Bar Harbor, July 14–Sept. 9.

CYAMOPS Melander

C. NEBULOSA Mel. Salisbury Cove, July 13, 1923.

ANTHOMYZA Fallén

A. GRACILIS Fall. Echo Lake; S. W. Harbor, July 12–Aug. 27.

A. TENUIS Loew. Common, July 12–Aug. 13.

A. VARIEGATA Loew. N. E. Harbor; Bar Harbor, July 27–Aug. 12.

MUMETOPIA Melander

M. TERMINALIS Loew. Bar Harbor; S. W. Harbor; Echo Lake, June 8–Sept. 3.

PELOMYIA Williston

P. MALLOCHI Sturt. Narrows, June 9.

CHIROMYIA R.-Desvoidy

C. FLAVA Linn. 'Mt. Desert,' July 28 (McAtee).

MILICHIIDAE

PHOLEOMYIA Bilimek

P. INDECORA Loew. S. W. Harbor; Salisbury Cove, July 10–25.

MILICHIELLA Giglio-Tos

M. ARCUATA Loew. S. W. Harbor; Salisbury Cove, July 13–15.

EUSIPHONA Coquillett

E. MIRA Coq. Salisbury Cove, July 15–Aug. 7.

PARAMYIA Williston

P. NITENS Loew. 'Mt. Desert,' July 30. On flowers of Spiraea (McAtee).

PHYLLOMYZA Fallén

P. SECURICORNIS Fall. S. W. Harbor, Aug. 26 (Alexander).

DESMOMETOPA Loew

D. LATIPES Meig. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24–Sept. 6.

D. SORDIDUM Fall. Salisbury Cove, July 14.

MALLOCHIELLA Melander

M. GLABRA Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24–Aug. 20.

MEONEURA Rondani

M. VAGANS Fall. Bar Harbor, June 7.

OCHTHIPHILIDAE

OCHTHIPHILA Fallén

O. ARIDELLA Fall. Sand Beach, Great Head; Long Pond, July 11–21.

O. JUNCORUM Fall. Upper Hadlock Pond; Salisbury Cove, June 10–July 15.

O. POLYSTIGMA Meig. Salisbury Cove; Tremont, July 14–Aug. 23.

CHAMAEMYIA Panzer

C. ELEGANS Panz. Salisbury Cove, July 13, 15.

LEUCOPIS Meigen

L. NIGRICORNIS Egger. Common, June 10–Aug. 13.

AGROMYZIDAE

AGROMYZA Fallén

A. AENEIVENTRIS Fall. Bar Harbor, June 7.

A. ARTEMISIAE Kalt. (*platyptera* Thom.). S. W. Harbor; Seal Cove; Bar Harbor, July 11–Aug. 8. The larvae mine the leaves of a large number of plants.

A. ATRATA Meig. (*angulata* Loew). Bar Harbor, July 11.

A. GENUALIS Mel. (*coloradensis* Mall.). 'Great Heath'; S. W. Harbor, July 15.

A. LATERALIS Macq. (*coquilletti* Mall.). Echo Lake; Salisbury Cove, July 12–24.

A. MELAMPYGA Loew (*flaviventris* Johns.). S. W. Harbor, July 13. The larvae mine the leaves of plantain.

A. MOROSA Meig. (*magnicornis* Loew; *luterella* Zett.). Bar Harbor; S. W. Harbor, June 7–Aug. 20. The larvae form swellings in the stems of the iris.

A. NASUTA Mel. (*madizina* Hend.). 'Mt. Desert,' July 30 (McAtee).

A. PARVICORNIS Loew. S. W. Harbor; Narrows, July 10–27.

A. POSTICATA Meig. (*terminalis* Coq.). Common, June 8–July 30. The larvae mine the leaves of asters and goldenrods.

A. PUSILLA Meig. (*trifolii* Burg.). S. W. Harbor; Echo Lake; Seal Cove, July 13–Sept. 8. The larvae mine the leaves of various Cruciferae, Compositae, Leguminosae, etc.

A. VARIATA Mall. Narrows, July 27.

A. VIRIDULA Coq. Green Mt., Aug. 17.

NAPOMYZA Haliday

N. LATERALIS Fall. Echo Lake, July 17.

PHYTOMYZA Fallén

P. ALBICEPS Meig. (*P. bipunctata* Loew). Mt. Desert, July 30 (McAtee).

P. AQUILEGIAE Hardy. Columbine leaf-miner. S. W. Harbor, June. The larvae mine the leaves of the columbine.

P. ATRICORNIS Meig. (*P. chrysanthemi* Kowarz). Margarite fly. Bar Harbor, July 19. The larvae mine the leaves of chrysanthemum and margarite.

P. ILICICOLA Loew. Holly leaf-miner. S. W. Harbor; Echo Lake, July 14–17.

PUPIPARA

HIPPOBOSCIDAE

ORNITHOICA Rondani

O. CONFLUENTA Say. Frequents sparrows, owls, etc.

ORNITHOMYIA Latreille

O. ANCHINEURA Speiser (*O. pallida* Say). Bar Harbor, July (Moore). Frequents song and chipping sparrows, junco, robin, etc.

ORNITHOPONUS Aldrich

O. AMERICANUS Leach. Frequents great horned owl, red-shouldered hawk, ruffed grouse, etc.

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